



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038285
PO Date: 11/7/17
Due Date: 11/13/17
Purchase Order Revision:
Revision Date:
Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30

Freight Terms:

Special Comments: QUOTATION NO.
SOU0068632,SOU0069446,SOU0069452

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750		17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Received	11/13/17	24 ft	24 ft	0 ft	\$8.275/ft	\$0.00
2	M2024T3S.032		2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Received	11/13/17	48 sf	48 sf	0 sf	\$4.4791666/sf	\$0.00
3	M6061T6B1.000X02.000		6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$6.263/ft	\$0.00
4	M6061T6B1.500X02.000		6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS	Received	11/13/17	12 ft	12 ft	0 ft	\$10.440833/ft	\$0.00



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			4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft							
5	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	12 ft	12 ft	0 ft	\$22.271666/ft	\$0.00
6	M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	24 ft	24 ft	0 ft	\$9.8770833/ft	\$0.00
7	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	6 ft	6 ft	0 ft	\$40.70/ft	\$0.00
8	M6061T6B1.500X3.000		6061T6 Bar 1.500 X 3.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	6 ft	6 ft	0 ft	\$15.74/ft	\$0.00
9	M6061T6B0.750X02.000		6061-T6 Bar .750 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER	Received	11/13/17	20 ft	20 ft	0 ft	\$5.3805/ft	\$0.00



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			QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft							
10	M6061T6B0.750X01.000		6061-T6 Bar .750 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$2.6075/ft	\$0.00
11	M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	20 ft	20 ft	0 ft	\$1.0685/ft	\$0.00
12	M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	40 ft	40 ft	0 ft	\$2.46/ft	\$0.00
13	M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Received	11/13/17	40 ft	40 ft	0 ft	\$3.83225/ft	\$0.00

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0038285	ACI001-VC	3	1	Net 30	M6061T6B1.000X02.000	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20	11/13/2017	20		S008416	Stock	11/9/2017	\$ 6.26 / ft	0		\$125.26	Acier Ouellette Inc.
		4			M6061T6B1.500X02.000	6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		S008417	Stock	11/9/2017	\$ 10.44 / ft	0		\$125.29	Acier Ouellette Inc.
		5			M6061T6B1.500X04.000	6061-T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S008418	Stock	11/9/2017	\$ 22.27 / ft	0		\$267.26	Acier Ouellette Inc.
		6			M6061T6B2.000X01.250	6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				24		24		S008419	Stock	11/9/2017	\$ 9.88 / ft	0		\$237.05	Acier Ouellette Inc.
		8			M6061T6B1.500X3.000 no HT	6061-T6 Bar 1.500 X 3.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				6		6		S008420	Stock	11/9/2017	\$ 15.74 / ft	0		\$94.44	Acier Ouellette Inc.
		9			M6061T6B1.750X02.000	6061-T6 Bar .750 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20		S008421	Stock	11/9/2017	\$ 5.38 / ft	0		\$107.61	Acier Ouellette Inc.
		10			M6061T6B1.750X01.000	6061-T6 Bar .750 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						20		S008422	Stock	11/9/2017	\$ 2.61 / ft	0		\$52.15	Acier Ouellette Inc.
		11			M6061T6R0.625	6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						20		S008423	Stock	11/9/2017	\$ 1.07 / ft	0		\$21.37	Acier Ouellette Inc.
		12			M6061T6R1.000 art	Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR				40		40		S008424	Stock	11/9/2017	\$ 2.46 / ft	0		\$98.40	Acier Ouellette Inc.

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		13			M6061T651.250	AMS 4117. 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						40			S008425 Stock	11/9/2017	\$ 3.83 / ft	0		\$153.29	Acier Ouellette Inc.
		18			M6061T651.080	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				32		32			S008426 Stock	11/9/2017	\$ 8.17 / sf	0		\$261.41	Acier Ouellette Inc.
		19			M6061T651.188	6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf						32			S008427 Stock	11/9/2017	\$ 9.83 / sf	0		\$314.42	Acier Ouellette Inc.
		22			M1018B1.125X0.750 no H drawing	1010-1025 Steel Bar .125 X .750 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				12		12			S008428 Stock	11/9/2017	\$ 0.96 / ft	0		\$11.67	Acier Ouellette Inc.
		23			M4140HR.750 T6	4140 Round Bar .750 : AISI 4140 ROUND BAR PER AISI 4140 OR ASTM A304-02/A-434-BC/A193-03-GRADE B7/A29-03/A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft				6		6			S008429 Stock	11/9/2017	\$ 3.49 / ft	0		\$20.95	Acier Ouellette Inc.
		24			M6061T651.500X0.002.000 no heat	6061-T6 Bar .500 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				20		20			S008430 Stock	11/9/2017	\$ 2.95 / ft	0		\$58.98	Acier Ouellette Inc.
		25			M6061T651.750	6061-T6 Round Bar .750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						20			S008431 Stock	11/9/2017	\$ 1.34 / ft	0		\$26.77	Acier Ouellette Inc.
		26			M1018B1.000X06.000	1010-1025 Steel Bar 1.000 X 6.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				6		6			S008432 Stock	11/9/2017	\$ 30.42 / ft	0		\$182.52	Acier Ouellette Inc.
Total:										342		342								\$1,700.65	



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Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750	✓	17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft		Firmed	11/13/17	✓ 24 ft	0 ft	24 ft	\$8.275/ft	\$198.60
	*B/O							24ft			
2	M2024T3S.032	✓	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$4.4791666/sf	\$215.00
	*B/O										
3	M6061T6B1:000X02.000	✓	6061-T6 Bar 1.00 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	✓ 20 ft	0 ft	20 ft	\$6.263/ft	\$125.26
	DAS 9 9-88							20ft			
4	M6061T6B1:500X02.000	✓	6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR		Firmed	11/13/17	✓ 12 ft	0 ft	12 ft	\$10.440833/ft	\$125.29
	DAS 9 9-88							12ft			



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			QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft								
5	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	12 ft	0 ft	12 ft	\$22.271666/ft	\$267.26
	DAS 9 9-89							12ft			
6	M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$9.8770833/ft	\$237.05
	DAS 9 9-89							24ft			
7	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$40.70/ft	\$244.20
	3/0										
8	M6061T6B1.500X3.000		6061T6 Bar 1.500 X 3.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$15.74/ft	\$94.44
	DAS 9 9-89							6ft			
9	M6061T6B0.750X02.000		6061-T6 Bar .750 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-		Firmed	11/13/17	20 ft	0 ft	20 ft	\$5.3805/ft	\$107.61
	DAS 9 9-89							20ft			



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			A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft								
10	M6061T6B0.750X01.000		6061-T6 Bar .750 X 1.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$2.6075/ft	\$52.15
	DAS 9 9-89							20ft			
11	M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft	20 ft	\$1.0685/ft	\$21.37
	DAS 9 9-89							20ft			
12	M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		Firmed	11/13/17	40 ft	0 ft	40 ft	\$2.46/ft	\$98.40
								40ft			
13	M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		Firmed	11/13/17	40 ft	0 ft	40 ft	\$3.83225/ft	\$153.29
	DAS 9 9-89							40ft			
								SPN-21-9			



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Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
14	M6061T6R3.250	-	6061-T6 Round Bar 3.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft		Firmed	11/13/17	36 ft	0 ft	36 ft	\$30.773611/ft	\$1,107.85
15	M6061T6S.020	-	6061-T6 Sheet .020 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$1.736875/sf	\$83.37
16	M6061T6S.040	-	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	144 sf	0 sf	144 sf	\$2.8484722/sf	\$410.18
17	M6061T6S.063	-	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	64 sf	0 sf	64 sf	\$2.7565625/sf	\$176.42
18	M6061T6S.080	-	6061-T6 .080 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	32 sf	0 sf	32 sf	\$8.1690625/sf	\$261.41
19	M6061T6S.188	-	6061-T6 .188 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	32 sf	0 sf	32 sf	\$9.825625/sf	\$314.42
20	M304B1.000X1.000	-	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240		Firmed	11/13/17	24 ft	0 ft	24 ft	\$13.4625/ft	\$323.10



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			NOTE: AISI 303 NOT ACCEPTABLE receive ft								
21	M303R0.500 B10	-	303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft		Firmed	11/13/17	48 ft	0 ft	48 ft	\$1.9739583/ft	\$94.75
22	M1018B.125x0.750	-	1010-1025 Steel Bar .125 X .750 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft		Firmed	11/13/17	12 ft	0 ft 12.2" ft	12 ft	\$0.956666/ft	\$11.48
23	M4140HR0.750 DAS 9 9-86	-	4140 Round Bar .750 : AISI 4140H ROUND BAR PER AISI 4140 OR ASTM A304-02/-A-434- BC/-A193-03-GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft		Firmed	11/13/17	6 ft	0 ft 6 ft	6 ft	\$3.492/ft	\$20.95
24	M6061T6B0.500X02.000	-	6061-T6 Bar .500 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft 20 ft	20 ft	\$2.949/ft	\$58.98
25	M6061T6R0.750	-	6061-T6 Round Bar .750" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221-OR ASTM B221 receive ft		Firmed	11/13/17	20 ft	0 ft 20 ft	20 ft	\$1.3385/ft	\$26.77



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
26	M1018B1:000X06.000	-	1010-1025 Steel Bar 1.000 X 6.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$30.42/ft	\$182.52
										Grand Total:	\$5,012.12

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/7/17 3:05 PM DART.LAVOIE.CHANTAL

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0068632****Billed to**

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N°

CLI0001056

Date

2017/11/02

Revision N°

0

Prices valid until

2017/11/09

Your Order N°**Processed by**

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 ✓ 2 X 20' STOCK	37.00	40.00 PI_\$CLB	40.00 PI		2.00	49.200	98.40
ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 ✓ 2 X 20' STOCK	57.64	40.00 PI_\$CLB	40.00 PI		2.00	76.645	153.29
ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 ✓ 3 X 12' 2-3 DAYS	350.64	36.00 PI_\$CLB	36.00 PI		3.00	369.283	1 107.85
ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 ✓ 1 X 4' X 12' 2-3 DAYS	13.54	48.00 PI2_\$CLB	1.00 UN		1.00	83.370	83.37
ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 ✓ 3 X 4' X 12' 2-3 DAYS	81.07	144.00 PI2_\$CLB	144.00 PI2		3.00	136.726	410.18
ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 ✓ 2 X 4' X 8' 2-3 DAYS	57.66	64.00 PI2_\$CLB	2.00 UN		2.00	88.210	176.42
ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 ✓ 1 X 4' X 8' STOCK	36.51	32.00 PI2_\$CLB	1.00 UN		1.00	261.410	261.41
ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 ✓ 1 X 4' X 8' STOCK	85.92	32.00 PI2_\$CLB	1.00 UN		1.00	314.420	314.42
SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 ✓ 2 X 12' R/L 2-3 DAYS	81.60	24.00 PI_\$CLB	24.00 PI		2.00	161.550	323.10

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0068632****Billed to**

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N°

CLI0001056

Date

2017/11/02

Revision N°

0

Prices valid until

2017/11/09

Your Order N°**Processed by**

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Shipped to

, Ontario,

Credit Terms

Net 30 Days

Page

2

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' STOCK ✓	70.56	24.00	PI_\$CLB	24.00	PI		2.00	118.525	237.05
ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" 2-3 DAYS ✓ COUPE A LA SCIE SCIE 1 6ft	57.28	2.00	PI2_\$CLB	2.00	PI2		1.00	244.200	244.20
AL. PLAT 2 3/4" X 6 1 X 6' 5-7 DAYS N ✓	0.00	1.00	UN	1.00	UN		1.00	497.000	497.00
FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 6' STOCK ✓ COUPE A LA SCIE SCIE 1	31.75	6.00	PI_\$CLB	6.00	PI		1.00	94.440	94.44
FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592 1 X 20' STOCK ✓	36.36	20.00	PI_\$CLB	20.00	PI		1.00	107.610	107.61
FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588 1 X 20' 2-3 DAYS ✓	17.62	20.00	PI_\$CLB	20.00	PI		1.00	52.150	52.15
FLAT ALU 1/8 X 3/4 6063-T5 RANDOM FAL-1834-V 2552 1 X 20' STOCK ✓	2.26	20.00	PI_\$CLB	20.00	PI		1.00	6.580	6.58
ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169 1 X 20' STOCK ✓	7.22	20.00	PI_\$CLB	20.00	PI		1.00	21.370	21.37

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0068632

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N°

CLI0001056

Date

2017/11/02

Revision N°

0

Prices valid until

2017/11/09

Your Order N°**Processed by**

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
PLAT 17-4 PH 1 1/2 X 2 1/4 N 1 X 12' 5-7 JOURS	0.00	1.00	UN	1.00	UN		1.00	1 930.000	1 930.00
ROUND SS 3/4 17-4PH NS RSS-34174 9268 2484 1 X 12' STOCK	18.02	12.00	PI_\$CLB	12.00	PI		1.00	99.300	99.30
ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' DELIVERY 2-3 DAYS	21.65	48.00	PI2_\$CLB	1.00	UN		1.00	215.600	215.60
PLAT 6S303 1 1/2 X 3 1/2 N 1 X 12' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	3 840.000	3 840.00
ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229 1 X 23" X 144" 2-3 DAYS COUPE A LA SCIE SCIE 1	174.00	24.00	PI2_\$CLB	24.00	PI2		1.00	659.350	659.35
FLAT ALU 1 X 2 6061-T6 RANDOM FAL-12-V 2497 1 X 20' STOCK	48.00	20.00	PI_\$CLB	20.00	PI		1.00	125.260	125.26
FLAT ALU 1 1/2 X 2 6061-T6 RANDOM FAL-1122-V 2440 1 X 12' STOCK	42.34	12.00	PI_\$CLB	12.00	PI		1.00	125.290	125.29
FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447 1 X 12' STOCK	84.59	12.00	PI_\$CLB	12.00	PI		1.00	267.260	267.26

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0068632****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N 

CLI0001056

Date

2017/11/02

Revision N 

0

Prices valid until**2017/11/09****Your Order N ****Processed by**

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

4

Att : CHANTAL LAVOIE T l.: 613-632-5200

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' 2-3 DAYS	32.02	48.00	PI_\$CLB	48.00	PI		4.00	23.687	94.75
FLAT CR 1/4 X 3/4 1018 RANDOM FCR-1434-V 2753 1 X 12' R/L STOCK	7.66	12.00	PI_\$CLB	12.00	PI		1.00	11.480	11.48
ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 5' STOCK	7.51	5.00	PI_\$CLB	5.00	PI		1.00	17.460	17.46
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
PLAT 4140 ANN 1/2 X 1 5/8" 1 X 4' OFFER 4140 ANN 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	145.000	145.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

2 920.84

Important

This offer is based on availability and current pricing conditions that may be revised upon

preavis of the evolution des prix de l'acier sur le march .

This offer is subject to conditions of credit approval.

Approved and Accepted by : _____

Date : _____

Sub-total

11 723.54

TVH-13 1524.06

Total (\$CAD)**13 247.60**



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0069452

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N°

CLI0001056

Date

2017/11/07

Revision N°

0

Prices valid until

2017/11/14

Your Order N°

Processed by

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 1 X 20'	23.98	20.00	PI_\$CLB	20.00	PI		1.00	58.980	58.98
ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 1 X 20'	10.46	20.00	PI_\$CLB	20.00	PI		1.00	26.770	26.77
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE ALL IN STOCK			\$						3.95

Total Weight (Lbs)

34.44

Important

This offer is based on availability and current pricing conditions that may be revised upon

présentation de la commande l'évolution des prix de l'acier sur le marché.

Cette offre est soumise aux conditions de crédit.

Approved and Accepted by :

Date :

Sub-total

89.70

TVH-13 · 11.66

Total (\$CAD)

101.36

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0069446****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Customer N 

CLI0001056

Date

2017/11/07

Revision N 

0

Prices valid until**2017/11/14****Your Order N ****Processed by**

BERNARD

Salesman

JOSIANNE

Carrier

OUELLE SDV

Att : CHANTAL LAVOIE T l.: 613-632-5200

Credit Terms

Net 30 Days

Page

1

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 1 X 6' STOCK COUPE A LA SCIE SCIE 1	122.40	6.00	PI_\$CLB	6.00	PI		1.00	182.520	182.52
		1.00	UN	1.00					
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

122.40

Important**Sub-total**

186.47

This offer is based on availability and current pricing conditions that may be revised upon

pr sentation de l' volution des prix de l'acier sur le march .

This offer is subject to conditions of credit approval.

Approved and Accepted by :

Date :

Total (\$CAD)**210.71**

TVH-13 24.24



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M**Delivery Route** 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' HEAT: AC11066-JG-13/11	36.05	24.00	PI_\$CLB			2x					
2 ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' HEAT: AC11063-SA-13/11	21.65	48.00	PI2_\$CLB			1x					
3 FLAT ALU 1 X 2 6061-T6 RANDOM FAL-12-V 2497 1 X 20' HEAT	48.00	20.00	PI_\$CLB			1x20					
SPR-11-9.											

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M**Delivery Route** 5**Page** 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 FLAT ALU 1 1/2 X 2 6061-T6 RANDOM FAL-1122-V 2440 1 X 12' HEAT	42.34	12.00	PI_\$CLB		1 X 12'						
5 FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447 1 X 12' HEAT	84.59	12.00	PI_\$CLB		1 X 12'						
6 FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' HEAT:	70.56	24.00	PI_\$CLB		2 X 12'						
7 ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT	57.28	2.00	PI2_\$CLB		1 X						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
COUPE A LA SCIE SCIE 1 MATERIEL DOIT ETRE STAMPER		1.00	UN								
TRANSFERT ST-JEROME LE 09/11											
9 FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 6' HEAT COUPE A LA SCIE SCIE 1	31.75	6.00	PI \$CLB		1xL 6'x						
		1.00	UN								

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

C000060831

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 4

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M**Delivery Route** 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
10 FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592 1 X 20' HEAT	36.36	20.00	PI_\$CLB		1 X 20'	/					
11 FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588 1 X 20' HEAT	17.62	20.00	PI_\$CLB		1 X 20'	/					
12 ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169 1 X 20' HEAT	7.22	20.00	PI_\$CLB		1 X 20'	/					
13 ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 2 X 20' HEAT	37.00	40.00	PI_\$CLB		2 X 20'	/					

SPR-11-9.

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

C000060831

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 5

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
14 ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 2 X 20' HEAT	57.64	40.00	PI_\$CLB		2x 20'		8012-11-9				
15 ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 3 X 12' HEAT AC11063-SA-13/11	350.64	36.00	PI_\$CLB		3x						
16 ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER	13.54	48.00	PI2_\$CLB		1x						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M**Delivery Route** 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11											
18 ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 3 X 4' X 12' HEAT	81.07	144.00	PI2_\$CLB			3x					
TRANSFERT ST-JEROME LE 09/11											
MATERIEL DOIT ETRE STAMPER											
20 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 2 X 4' X 8' HEAT	57.66	64.00	PI2_\$CLB			2x					

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 7

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11 <i>MATERIEL DOIT ETRE STAMPE</i>											
22 ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 <i>1 X 4' X 8' HEAT 358772</i>	36.51	32.00	PI2_\$CLB		1x						
23 ALU SHEET 3/16 6061-T6 (4 X 8) FEAL-316486061 4271 <i>1 X 4' X 8' HEAT K650144</i>	85.92	32.00	PI2_\$CLB		1x						
24 SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 <i>2 X 12' R/L HEAT</i>	81.60	24.00	PI_\$CLB		2x						

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

C000060831

Customer N  CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 8

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11											
26 ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' HEAT AC11066-JG-13/11	32.02	48.00	PI_\$CLB			4x					
27 FLAT CR 1/4 X 3/4 1018 RANDOM FCR-1434-V 2753 1 X 12' R/L HEAT	7.66	12.00	PI_\$CLB		1x 12'2"						
28 ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 6' HEAT	9.01	6.00	PI_\$CLB		1x 6'						

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 9

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
COUPE A LA SCIE SCIE 1		1.00	UN								

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 1 303.69**NIR :** R-109516-6**Total (\$CAD)**

Prepared By :	Verified By :	Delivered By :	Time		Y	M	D
				Customer's Signature	Date		



DELIVERY - CLIENT

CO00Q60833

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Billed to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 1 X 20'	23.98	20.00	PI_\$CLB		1X20						
2 ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 1 X 20'	10.46	20.00	PI_\$CLB		1X20						

Conditions :

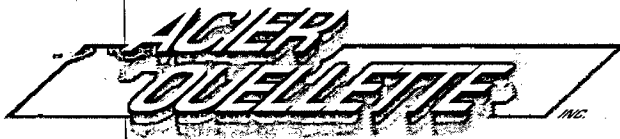
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 34.44

NIR : R-109516-6

Total (\$CAD)

Prepared By : NM	Verified By :	Delivered By :	Time	Customer's Signature			Date		
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DELIVERY - CLIENT

CO00060835*

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Billed to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 1 X 6' COUPE A LA SCIE SCIE 1	122.40	6.00	PI_\$CLB								
		1.00	UN								

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 122.40**NIR :** R-109516-6

Prepared By : NM	Verified By :	Delivered By :	Time	Y M D			Total (\$CAD)
Customer's Signature				Date			

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M : 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M : 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Delivery Route 5

Customer N  CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' HEAT: ACI1066-JG-13/11	36.05	24.00	PI_\$CLB	2.00		2X					
2	ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' HEAT: ACI1063-SA-13/11	21.65	48.00	PI2_\$CLB	1.00		1X					
3	FLAT ALU 1 X 2 6061-T6 RANDOM DAS FAL-12-V 2497 9 9.80 1 X 20' HEAT: SDX170413	48.00	20.00	PI_\$CLB	1.00							
4	FLAT ALU 1 1/2 X 2 6061-T6 RANDOM DAS FAL-1122-V 2440 9 9.80 1 X 12' HEAT: 385189	42.34	12.00	PI_\$CLB	1.00							

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Delivery Route 5

Customer N  CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N  38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
5 FLAT ALU 1 1/2 X 4 6061-T6 RANDOM FAL-1124-V 2447 1 X 12' HEAT: 201704805 DAS 9 9-80	84.59	12.00	PI_\$CLB	1.00							
6 FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' HEAT: 385790 DAS 9 9-80	70.56	24.00	PI_\$CLB	2.00							
7 ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT COUPE A LA SCIE SCIE 1 MATERIEL DOIT ETRE STAMPER	57.28	2.00	PI2_\$CLB	1.00		1X					
		1.00	UN								

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/09**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
	TRANSFERT ST-JEROME LE 09/11				0.00							
9	FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 6' HEAT : 52246 COUPE A LA SCIE SCIE 1	31.75	6.00	PI_\$CLB	1.00							
10	FLAT ALU 3/4 X 2 6061-T6 RANDOM FAL-342-V 2592 1 X 20' HEAT : 70630 DAS 9 9-80	36.36	20.00	PI_\$CLB	1.00							
11	FLAT ALU 3/4 X 1 6061-T6 RANDOM FAL-341-V 2588 1 X 20' HEAT : 382828 SVC	17.62	20.00	PI_\$CLB	1.00							

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date**2017/11/09****Your order N°**

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

4

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
12 ROUND ALU 5/8 6061-T6 RANDOM DAS RAL-58-V 5169 9 1 X 20' HEAT: 66092	7.22	20.00	PI_SCLB	1.00							
13 ROUND ALU 1 6061-T6 RANDOM RAL-1-V 5141 2 X 20' HEAT: 36585	37.00	40.00	PI_SCLB	2.00							
14 ROUND ALU 1 1/4 6061-T6 RANDOM RAL-114-V 5121 DAS 9 2 X 20' HEAT: 68467	57.64	40.00	PI_SCLB	2.00							
15 ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 3 X 12' HEAT: AC11063-SA-13/11	350.64	36.00	PI_SCLB	3.00		3X					

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M : 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M : 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

C000060831

Billed to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Delivery Route 5**Customer N ** CLI0001056**Date** 2017/11/07**Delivery date** 2017/11/09**Your order N ** 38285**Processed by** Josianne Bourdon**Salesman****Carrier** OUELLETTE VALLEYFIELD**Credit Terme** Net 30 Days**Page** 5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
16	ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER TRANSFERT ST-JEROME LE 09/11	13.54	48.00	PI2_\$CLB	1.00		1x					
					0.00							
18	ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 3 X 4' X 12' HEAT TRANSFERT ST-JEROME LE 09/11	81.07	144.00	PI2_\$CLB	3.00		3x					
					0.00							
20	ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 2 X 4' X 8' HEAT	57.66	64.00	PI2_\$CLB	2.00		2x					

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
TRANSFERT ST-JEROME LE 09/11				0.00							
MATERIEL DOIT ETRE STAMPE											
22 ALU SHEET .081 (12G) 6061-T6 (4 X 8) FEAL-081486061 3199 1 X 4' X 8' HEAT: 358972 DAS 9	36.51	32.00	PI2_SCLB	1.00							
23 ALU SHEET 3/16 6061-T6 (4 X 8) 9-88 FEAL-316486061 4271 1 X 4' X 8' HEAT ZB161046101 DAS 9 9-88	85.92	32.00	PI2_SCLB	1.00							
24 SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 2 X 12' R/L HEAT	81.60	24.00	PI_SCLB	2.00							

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date**2017/11/09****Your order N°**

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

7

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
	TRANSFERT ST-JEROME LE 09/11				0.00							
26	ROUND SS 1/2 303 RANDOM RSS-12303-V 5727	32.02	48.00	PI_\$CLB	4.00							
	4 X 12' HEAT AC11066-JG-13/11						4X					
27	FLAT CR 1/4 X 3/4 1018 RANDOM DAS FCR-1434-V 2753 9 9.80	7.66	12.00	PI_\$CLB	1.00							
28	1 X 12' R/L HEAT: 3071118 ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949	9.01	6.00	PI_\$CLB	1.00							
	1 X 6 HEAT: M52573 DAS COUPE A LA SCIE 9 9.80 SCIE 1		1.00	UN								

NIR : R-109516-6

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H  vre
Salaberry de Valleyfield (Qu  bec) J6S 5L1
T  l.: 450-377-4248 M  l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M  l: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060831

Billed to
DART AEROSPACE LTD1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE T  l.: 613-632-5200

Delivery Route 5

Customer N   CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N   38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 8

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$	0.00							

Total Weight (LBS) : 1 303.69

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D

Total (\$CAD) 5 364.58
Deposit 0.00
Balance 5 364.58

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

C000060833

Billed to
DART AEROSPACE LTD1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5**Customer N°** CLI0001056**Date** 2017/11/07**Delivery date** 2017/11/09**Your order N°** 38285**Processed by** Josianne Bourdon**Salesman****Carrier** OUELLETTE VALLEYFIELD**Credit Terme** Net 30 Days**Page** 1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT ALU 1/2 X 2 6061-T6 RANDOM FAL-122-V 2481 1 X 20' HEAT 68289	23.98	20.00	PI_SCLB	1.00							
2	ROUND ALU 3/4 6061-T6 RANDOM RAL-34-V 5157 1 X 20' HEAT 68706	10.46	20.00	PI_SCLB	1.00							
Total Weight (LBS) : 34.44												

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D

Total (\$CAD)	96.90
Deposit	0.00
Balance	96.90

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales**Copy**

CO00060835

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5**Customer N°**

CLI0001056

Date

2017/11/07

Delivery date

2017/11/09

Your order N°

38285

Processed by

Josianne Bourdon

Salesman**Carrier**

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 1 X 6' heat: 3066812 COUPE A LA SCIE SCIE 1	122.40	6.00	PI_\$CLB	1.00							
			1.00	UN								

Total Weight (LBS) : 122.40

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :

Verified By :

Delivered By :

Time

Customer's Signature

Y M D

Total (\$CAD)

206.25

Deposit

0.00

Balance

206.25



935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

0000060835

Billed to
DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/09
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	FLAT CR 1 X 6 1018 RANDOM FCR-16-V 2775 1 X 6' heat: 3066812 COUPE A LA SCIE SCIE 1	122.40	6.00	PI_SCLB	1.00							
			1.00	UN								

Total Weight (LBS) : 122.40

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature	Y	M	D

Total (\$CAD) 206.25
Deposit 0.00
Balance 206.25

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00062517

Sold to
DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : Facturation

Customer N° CLI0001056
Date 2017/11/10
Your order N° 38285
Processed by Melanie
Salesman JOSIANNE
Carrier OUELLETTE VALLEYFIELD
Credit Term Net 30 Days
Order N° CO00060831
Page 2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
TRANSFERT ST-JEROME LE 09/11	0.00								
→ PLAT ALU 1 1/2 X 3 6061-T6 RANDOM AL-1123-V 2445 1 X 6' HEAT 52246	31.75	6.00	PI_\$CLB	6.00	PI		1.00	94.440	84.44
PLAT ALU 3/4 X 2 6061-T6 RANDOM AL-342-V 2592 1 X 20' HEAT: 70630	36.36	20.00	PI_\$CLB	20.00	PI		1.00	107.610	107.61
PLAT ALU 3/4 X 1 6061-T6 RANDOM AL-341-V 2588 1 X 20' HEAT: 382828	17.62	20.00	PI_\$CLB	20.00	PI		1.00	52.150	52.15
ROUND ALU 5/8 6061-T6 RANDOM AL-58-V 5169 1 X 20' HEAT: 66092	7.22	20.00	PI_\$CLB	20.00	PI		1.00	21.370	21.37
ROUND ALU 1 6061-T6 RANDOM AL-1-V 5141 1 X 20' HEAT: 36585	37.00	40.00	PI_\$CLB	40.00	PI		2.00	49.200	98.40
ROUND ALU 1 1/4 6061-T6 RANDOM AL-114-V 5121 1 X 20' HEAT: 68467	57.64	40.00	PI_\$CLB	40.00	PI		2.00	76.645	153.29
ROUND ALU 3 1/4 6061-T6 RANDOM AL-314-V 5152 1 X 12' HEAT: 37876 ACI1063-SA-13/11	0.00	0.00	PI_\$CLB	0.00	PI		3.00	369.283	0.00
ALU SHEET .020 (24G) 6061-T6 (4 X 12) EAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER	0.00	0.00	PI2_\$CLB	0.00	UN		1.00	83.370	0.00

CORRECTION *

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T620750
 DATE: 11.11.19

PO / BATCH NO.: 034255 / 8008431

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750"
 THICKNESS RECEIVED: 0.750"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>As per B-221-14</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat # 68706</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> ^{DAS} DATE: <u>11.11.19</u> ^{9:50}	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R | D.DDD |
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
2009-09-09
MP

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6R	REV. B SHEET 1 OF 1
TITLE 6061-T6 ROUND BAR	SCALE NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE LOANED FOR ANY PURPOSE OR COPIED OR REPRODUCED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60617680-0002000
 DATE: 11-11-19

PO / BATCH NO.: 088255/3008430

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .500"
 THICKNESS RECEIVED: .500"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>Asym B-221-DK</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # 68289</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>11-11-19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
[Signature]

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6B REV. B TITLE 6061-T6 BAR SCALE NTS	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>		
MFG. APPR.	<i>[Signature]</i>		
APPROVED	<i>[Signature]</i>		
DE APPR.	<i>[Signature]</i>		
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.500X3.000

PO / BATCH NO.: 038285 / S004120

DATE: 17.11.16

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.1500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	<u>ASTM B221/SB221</u>
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	<u>Heat # 52246</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 9 / 14</u> DATE: <u>17.11.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD

note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR ~~QQ-A-200/8~~ OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-08-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	JP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	AS	DRAWING NO.	REV. B
MFG. APPR.	MS	M6061T6B	SHEET 1 OF 1
APPROVED	MS	TITLE	SCALE
DE APPR.	MS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B125X0.750
 DATE: 12.11.19

PO / BATCH NO.: 038235/3008428

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 750 .125"
 THICKNESS RECEIVED: 750 .125"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	N/A for dent tooling use only P12
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	3071113
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 9</u> DATE: <u>12.11.19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
- 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
- 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
- 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
- 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
- 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **7011453**

bon de commande / Purchase order # : **OU-47404**

de matrice / Die # : **MS 9435**

Description : **2"X.5"FLAT BAR**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6096 mm**

Contrôle / Control # : **84114-1**

Coulée / Cast # : **68289**

Dureté Rockwell E /
Rockwell E hardness : **95 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-02-09**



Gilles Pelletier
Technicien de la qualité
Quality technician

FAC-122

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7020941

bon de commande / Purchase order # : OU-47416

de matrice / Die # : MS 9909

Description : 3/4" ROD

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 85611-1

Coulée / Cast # : 68706

Dureté Rockwell E /
Rockwell E hardness : 91 HRE

Min. requis /
Min. required : 88 HRE

Max. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : 2017-03-28

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

2497

C74066



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 14 April, 2017

Consignee: SINOPEC TRADING INC.
4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA
PO number: P-17065
Shipping Ref No.: 17-0456
LC No.: DC HMN711129
Date of issue: 24 March, 2017
Item Code: 1015300
Die Number: D00227
Alloy & Temper: 6061-T6511
Production Description: FLAT BAR SC 1.000 X 2.00 X 144" 6061-T6511 D00227
Length (inch): 144
Bundle number: P-17065-384
Heat Number: SXD170413
Date: 02/04/2017
Applicable Specifications: ASTM B221 STANDARDS 9-89

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.620	0.906	0.160	0.243	0.019	0.080	0.012	0.017	97.894	<0.05	<0.10	30/03/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
39.6	35.7	10.8	30/03/2017

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R378797



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
 411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

S795	CERT CODE:	DIE NUMBER		DATE OF SHIPMENT	EXTRUDEX ORDER NO. 203596 — 16	MANIFEST NO. 367427
	9	S 4659	Mar/23/2017			
1582	CUSTOMER PO C74143	ALLOY 6061	TEMPER T6511	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
SO DESCRIPTION 2"x1.5" Flat Bar		CUSTOMER PART NUMBER V836591	PART DESCRIPTION 2"x1.5" Flat Bar		CERTIFICATION ASTM B221-14 AMS QQA 200/8	

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Mar/22/2017	48.70	45.60	12.70	93.0,93.2,93.4	

Chemical Composition

Chemical Composition																						
Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
385189	DAS	A.11	6061	0.59	0.16	0.2	0.04	0.84	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	Remainder	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
 Quality Control Manager

1 - CUSTOMER COPY

0446 #



Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
289111	12

	MANIFEST NUMBER 327714	DIE NUMBER RB0142	DATE OF SHIPMENT 3/29/2017
	CUSTOMER PO C74189	ALLOY / TEMPER 6061-T6511	SALESPERSON D.Schroeder (Canada)
Quantity Certified 1,708 lbs 20 pcs	CUSTOMER PART NUMBER V830291-MRB0467	DESCRIPTION SCRB 1.500x4.000	

CERTIFICATION ASTM-B221-14 No Stencil
SPECIFICATION AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties		Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.		min	max	min	max	min	max
2	201704805	3/26/17	51.00	51.20	47.20	47.20	17.30	18.30

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others Each	Total	Melt Source:
03191702	201704805	6061	0.77	0.40	0.33	0.11	0.85	0.11	0.08	0.02	97.33	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/29/2017

Rev 9/8/16

#2456
CAN ART
ALUMINUM EXTRUSION L.P.

FAL-1142-12

PO. 9353
48746

Material Test Report

Manifest: 709584

Ticket:
1698543

Our Order: 879031 - 1

Cust P.O.: 791663

Die: ES04038

Part: 160001442

Alloy Temper: 6061 T6511

Description: 1.250 x 2.000 RECT. BAR

Print Date: 6/22/17

Chemical Composition										
DAS 9 Cast ID	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Maximum	
									Other Each	Other Total
<u>3B5790</u>	0.60	0.17	0.22	0.04	0.81	0.06	0.01	0.02	0.05	0.15

Mechanical Properties						
Strength ksi						
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
71383	3B5790	A11	6/14/17	44.71	41.46	15.5

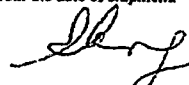
Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Manager

#2445

ROCKWELL TEST

Customer	Date	Location
LES ACIERS	10/11/2011	Mississauga
Customer.# 61562		Order # 1091038
Control # 11809-1		P.O. # OU-35922
Cust Part # 3" X 1 1/2" Rect. Bar		Die # AS 8030
Alloy & Temper 6061 T6		Cast # 52246

Test results

ROCKWELL R_E

Min. Required	88
Actual	94

Typical Chemistry 1 6061

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti
0.4-0.8	0.7mx	0.15-0.4	0.15mx	0.8-1.2	.04-.35	0.05mx	0.2mx	0.20mx

Tensile testing is performed according to ASTM B557.84 requirements
Mechanical test results conform to specifications for ~~ASTM B221/SB221~~
The aluminum extrusions tested meet the chemical composition requirements of the alloy specified.

Test certified by Anil Verma

Date 10/11/2011

Sapa Extrusion
5675 Kennedy Rd.
Mississauga, ON, L4Z 2H9

Tel: (905) - 890 - 8821
Fax: (905) - 890 - 3670

FA 1123

2592

1 RA 17S 2

**Test de dureté Rockwell
Rockwell Hardness Test**

FAL-2592-342-V

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2**# commande Sapa / Sapa order # : **7100203**# bon de commande / Purchase order # : **OU-48345**# de matrice / Die # : **MS 15953** Description: **2x3/4" FLAT BAR**Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6096 mm**# Contrôle / Control # : **563-1**# Coulée / Cast # : **70630**D4S
0
8-80Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : **94 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : **2017-10-30**
Yours truly,Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

2588

MILL TEST

	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	ORDER NO.	MANIFEST NO.
		S 2444	Jun/27/2016	194907 — 5	351750
	CUSTOMER PO	ALLOY	TEMPER	SALESMAN	
	C72843	6061	T6511	HOUSE ACCOUNTS	
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION		MADE IN CANADA	
3/4"X1" FLAT BAR	V836442	3/4"X1" FLAT BAR		CERTIFICATION	
				ASTM B221-14 - AMS QQA 200/8	
				SPECIFICATION	
				Samuel sind shapes	

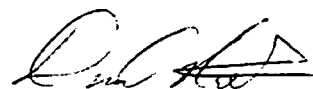
Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Jun/18/2016	45.10	40.70	16.10	89.7, 90.3, 90.0	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ca	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
382828	A.11	6061	0.61	0.15	0.22	0.04	0.89	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

1 - CUSTOMER COPY

3169

45454

68623

RAL 58

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **6031289**

bon de commande / Purchase order # : **OU-45668**

de matrice / Die # : **MS 9907**

Description : **5/8" DIA ROD**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

de contrôle / Control # : **65547-1**

de coulée / Cast # :

66092

DAS
9
9.89

Dureté Rockwell E /
Rockwell E hardness : **93 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2016-05-12**



Gilles Pelletier
Technicien de la qualité
Quality technician

VENDU À
ACIERS TRANSBEC (1997) LTEE
4054, BOUL. LE CORBUSIER
#201
LAVAL, QC
H7L 5R2
NO CLIENT: 3693

LIVRÉ À
ACIER OUELLETTE
22, BOUL. J-F KENNEDY
ST-JEROME, QC J7Y 4B6
NO CLIENT: L-3693-3

NO DU BON	DATE DE LIVRAISON
120719	30/May/17
NIR: R-015478-2	NO DE TÉLÉPHONE DU CLIENT: 450-963-3693
NO COMMANDE CLIENT: OU-47807	REPRÉSENTANT: Guillaume Morin
CHAUFFEUR: JP COMEAU	NO COMMANDE EXTRUDEX: 105013

NO. ITEM	NO. DE FILIÈRE	NO. PIÈCE CLIENT	DESCRIPTION ALLIAGE / TREMPAGE	LONGUEUR	FINITION	COMMANDE CLIENT NB. PIÈCES / KILOS	À VENIR NB. PIÈCES / KILOS	NO. TICKET NB. PESÉES	EN LIVRAISON NB. PIÈCES / KILOS	%	OK
15	SA00582		TIGE RONDE 1" 6061/T6	6096mm	NATUREL MILL	60 500	0 0 105013-15-1A1	402302	66 548	100.0%	<input type="checkbox"/>
Sous-Total:								1	66 548		<input type="checkbox"/>

3 MILLTEST + CERT. CONFORMITÉ

Mill Test (Tensile Properties of Aluminum)

Test Date.: 25/May/17

Order No.	Alloy	Temper	Yield (ksi)	Ultimate Tensile (ksi)	Total Elongation (%)	Hardness (Rockwell E)	Conductivity %	Report No.
105013-15-1A1	6061	T6	41.9	45.7	14.85	95.10		7142

Certificate of compliance (Certificat de conformité)

Normes: (ANSI H35.1-1997) & (ASTM B221)

Order No.	Hardness (Webster)		Cast No.	CAST CHEMICAL COMPOSITION:																		
	#1	#2		Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co
105013-15-1A	15	15	36585	98.02	0.57	0.20	0.19	0.06	0.86	0.06	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

VÉRIFICATION DE MATÉRIEL

DATE 30/05/17

VÉRIFIÉ PAR

SIGNATURE

SIGNATURE
CLIENT:

DATE:

14

#5141

#5121

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7020941

bon de commande / Purchase order # : OU - 47416

de matrice / Die # : MS 9915

Description 1.25" DIA. ROD

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 85609-1

Coulée / Cast # : 68467

DAS
9
3.80

Dureté Rockwell E /
Rockwell E hardness : 92 HRE

Min. requis /
Min. required : 88 HRE

Max. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	---	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : 2017-03-14

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

RAL 114

CERTIFIED INSPECTION REPORT

Arconic

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

This report shall be the property of Arconic. It shall not be reproduced, copied, or otherwise used without the written approval of the Quality Department. No alteration or addition to this report is authorized in any manner. The rendering of this report, in whole or in part, to any other party is strictly prohibited. The rendering of this report to any other party is strictly prohibited.

3154031
Ship Date: 2017-04-23
P.O. No./Draw Contract No.:
Bill No.: 11293075
Invoice No.: C0000
Arconic No.: 1000015114-1
Item: 1000015114-1
Customer: ARCONIC, LLC

Ship To:

Item Description

08 IN TH (10.0000 - 0045) X 48.0 IN W (1.125
125) X 144.0 IN LH (1.15625 - 1.15625) CAT D 126901 (INI A17 6541)
T6 FLAT SHEET FOR DISTRIBUTORS TOLERANCE
GUARANTEED. AMS4027 REV N AS9105.2 REV 2013 EXC_MRK ASM-NP
209 REV 15 EXC_MRK ASTM B209 REV 14
(HAKKED) KRAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4750 LB CUM TOL +/-
10 * COR D126901 REV 46 CUST REQ 17-04-
19 *** K/E 17-09-24 ***

DAS
9
9-80

Mat	Package Ticket	Lot	Weight	Quantity	DOM	Inspector Clock Numbers
1	275676	158972	1849	75	PC	27705 47476
2	277855	158972	1896	37	PC	27709 47476
3	277855	158972	1794	15	PC	27705 47476
			7539	147		

Notes for COR: D126901.46

PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-CC-A-250-11 ORIGINAL REVISION D DATED 1997-08-01

COR: D126901.46 -Specification Limits

Temp	Dir	UTS	YS	SL4D
		KSI	KSI	PCT
75	Long Transv	Max		
		Min	42.0	35.0 10

Chemical Composition	Si	FE	CU	MR	MG	CR	ZN	TI	RECH	Total Aluminum
Alloy 6061	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05 0.15
	Min	0.40		0.15		0.8	0.04			REMAIN

#3199

DAVENPORT WORKS 4879 State Street Bettendorf IA 52722

Ship Date	B/L No.	Invoice No.	Amount No.	Item
2017-06-25	11293075	00000	1200012117	0000000000
P.O. No./Invoice Contract No.	Customer		Amount Item	

Page 2 of 3

356972 • Mechanical, Physical, Metallography, Quantummeter Results

Cash Number	Chemical - OPS	S1	FE	CU	MV	MG	CR	ZN	Pt	Other Each Other Total.
H2743033	Actuals	n 69	0.5	0.22	0.06	0.9	0.16	0.02	0.02	< 0.05 < 0.15
Lct. 158273	- Yeebamang	Dined								

Cast Number	Chemical - OES	SI	PE	CU	MR	MG	CR	ZN	TI	Other	Each	Other	Total
1274-025	Actonin	0.45	0.5	0.24	0.36	0.9	0.18	0.03	0.02	< 0.05		0.15	

CERTIFIED INSPECTION REPORT

Arcenic

DAVENPORT WORKS 4875 State Street, Bremer, IA 52742

We hereby certify that the material covered by this certificate has been inspected and has been found to meet the applicable material specifications and that the inspection was conducted in accordance with the applicable specifications. We also certify that the material is free from defects and is suitable for the intended use.

Ship From: DAVENPORT WORKS
Ship Date: 01/01/00
D.I. No: 11293075
Invoice No: 00000
Arcenic No: 1010414315-1
Serial: 012-101-001
D.O. No (Gove Contract No):
Arcenic Item:

Signature: [Signature]
Name: [Name]
Title: [Title]

Signature: [Signature]
Name: [Name]
Title: [Title]

Page 1 of 1

This material was tested in the United States or a Qualifying Country (WHI DPMR 225-072.1(a)) , it was manufactured in the United States.

#271

ACIER OUELLETTE INC. P.O. - AC4014 S.O. - 389102

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 1 page (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY74

MTR#:HECL2837.GIF

Item: 19048966061T6 Bundle: ZB-1610Y6101-6 Heat#: ZB-1610Y6101

HECL2837

HENAN MINGTAI AL. INDUSTRIAL CO., LTD

HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283

TEL: 371-67898611 FAX: 371-67898612

MILL TEST CERTIFICATE

TO:

TA CHEN INTERNATIONAL INC.

5855 OBISPO AVENUE

LONG BEACH, CA 90805

TEL: (562)808-8199

FAX: (562)808-8110

INVOICE NO.:

H-TZCH161037

PO NO:

L59891-S/L60566-S/L60525-S/L60590-S/L60801/L61055/

L61061/L61066/L61074/N10081-I/N10141-I/N10267/

N10271/N10293/N10376/N10377

LOADING PORT:

XINGANG, CHINA

DESTINATION:

CHICAGO, USA

SHIPPING MARKS:

N/M

DATE:

27-Oct-16

ISF NO.:

8EFT31182612382

DESCRIPTION OF GOODS:

ALUMINUM COIL 3003 H14

CERTIFIED TO ALL AA, ASTM B209-14, AMS/QQA 250/2, AMS 4008K SPECS.

ALUMINUM COIL 3003 H22/H24TB

CERTIFIED TO MINGTAI TREAD BRIGHT SPECS.

ALUMINUM COIL 5005 O

CERTIFIED TO ASTM B209-14.

ALUMINUM COIL AND SHEET 5052 H32

CERTIFIED TO ALL AA, ASTM B209-14, AMS/QQA 250/8, AMS 4016M SPECS.

ALUMINUM SHEET 6061 T6

CERTIFIED TO ASTM B209-14, ASME SB-209, AMS 4027N, AMS-QQ-A-250/1 SPECS.

CIF CHICAGO, USA

CHEMICAL COMPOSITION

Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
STANDARD		0.6	0.7	0.05-0.2	1.0-1.5	-	-	0.1	-	0.15	REMAIN
3003 H14	A-1610694	0.069	0.587	0.123	1.168	0.009	0.008	0.025	0.033	0.15	REMAINDER
3003 H14	A-1610718	0.110	0.580	0.120	1.120	0.023	0.000	0.010	0.029	0.15	REMAINDER
3003 H14	A-1610721	0.081	0.588	0.115	1.144	0.025	0.006	0.004	0.030	0.15	REMAINDER
3003 H14	A-1610750	0.070	0.570	0.120	1.130	0.010	0.000	0.000	0.020	0.15	REMAINDER
3003 H22/H24	Z-1610YB166	0.120	0.590	0.120	1.130	0.010	0.000	0.010	0.028	0.15	REMAINDER
3003 H22/H24	Z-1610YB196	0.120	0.591	0.125	1.135	0.039	0.010	0.005	0.033	0.15	REMAINDER
3003 H22/H24	Z-1610YB299	0.099	0.558	0.088	1.041	0.024	0.014	0.017	0.030	0.15	REMAINDER
Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
STANDARD		0.3	0.7	0.2	0.2	0.50-1.1	0.1	0.25	-	0.15	REMAIN
5005 O	B-16101135	0.048	0.214	0.006	0.026	0.055	0.022	0.005	0.019	0.15	REMAINDER
Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
STANDARD		0.25	0.4	0.1	0.1	2.2-2.8	0.15-0.35	0.1	0.023	0.15	REMAIN
5052 H32	B-16101234	0.087	0.382	0.015	0.052	2.388	0.175	0.010	0.012	0.15	REMAINDER

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 2 pages (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY74

MTR#:HECL2837.GIF

Item: 19048966061T6 Bundle: ZB-1610Y6101-6 Heat#: ZB-1610Y6101

5052 H32	B-16101246	0.060	0.190	<0.010	0.050	2.490	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	B-16101317	0.090	0.363	0.016	0.088	2.473	0.195	0.010	0.013	0.15	REMAINDER
5052 H32	B-16101323	0.051	0.174	0.003	0.019	2.607	0.193	0.008	0.021	0.15	REMAINDER
5052 H32	B-16101323	0.051	0.174	0.003	0.019	2.607	0.193	0.008	0.021	0.15	REMAINDER
5052 H32	B-16101324	0.065	0.215	0.004	0.061	2.614	0.193	0.008	0.022	0.15	REMAINDER
5052 H32	B-16101324	0.065	0.215	0.004	0.061	2.614	0.193	0.008	0.022	0.15	REMAINDER
5052 H32	B-16101326	0.087	0.351	0.022	0.089	2.495	0.167	0.016	0.010	0.15	REMAINDER
5052 H32	B-16101361	0.060	0.200	<0.010	0.010	2.570	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	B-16101361	0.050	0.200	<0.010	0.010	2.570	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	B-16101440	0.050	0.200	<0.010	0.020	2.500	0.210	0.010	0.020	0.15	REMAINDER
5052 H32	D1610035	0.086	0.369	0.030	0.060	2.308	0.173	0.046	0.013	0.15	REMAINDER
5052 H32	D1610035	0.086	0.369	0.030	0.060	2.308	0.173	0.046	0.013	0.15	REMAINDER
5052 H32	Z-1610Y5119	0.076	0.292	0.024	0.053	2.408	0.187	0.042	0.014	0.15	REMAINDER
5052 H32	Z-1610Y6124	0.092	0.315	0.021	0.075	2.474	0.169	0.016	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5136	0.090	0.325	0.019	0.086	2.373	0.170	0.019	0.013	0.15	REMAINDER
5052 H32	Z-1610Y5139	0.084	0.350	0.021	0.061	2.313	0.177	0.021	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5174	0.114	0.330	0.035	0.088	2.398	0.190	0.021	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5202	0.087	0.306	0.017	0.066	2.406	0.170	0.012	0.014	0.15	REMAINDER
5052 H32	Z-1610Y5225	0.060	0.210	<0.01	0.020	2.650	0.230	0.010	0.020	0.15	REMAINDER

Alloy/Tmp	Lot No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
STANDARD		0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.15	REMAIN
6081 T6	Z-1610Y6073	0.665	0.351	0.277	0.061	1.067	0.196	0.007	0.036	0.15	REMAINDER
6061 T6	ZB-1610Y6101	0.593	0.300	0.253	0.058	1.063	0.188	0.007	0.037	0.15	REMAINDER

MECHANICAL PROPERTY

Alloy/Tmp	Lot No.	Specs(In)	Tensile strength		Yield strength		Elongation
			Mpa	Ksi	Mpa	Ksi	
3003 H14	A-1610694	.063*48"C	153	22.2	149	21.6	12
3003 H14	A-1610718	.090*48"C	153	22.2	151	21.9	10
3003 H14	A-1610721	.080*48"C	156	22.6	136	19.7	10
3003 H14	A-1610750	.032*48"C	164	23.8	158	22.9	7
3003 H22/H24	Z-1610YB186	.125*48"C	136	19.7	110	16.0	22
3003 H22/H24	Z-1610YB196	.056*60"C	134	19.4	107	15.5	15
3003 H22/H24	Z-1610YB299	.045*48"C	132	19.1	98	14.2	13
6005 O	B-16101135	.057*45"C	107	15.5	57	8.3	26
6062 H32	B-10101234	.063*48*120	217	31.5	162	23.5	10
5052 H32	B-16101246	.125*60*144	217	31.5	186	27.3	12
5052 H32	B-16101317	.040*46*90	240	34.8	192	27.8	10
5052 H32	B-16101323	.063*48*120	215	31.2	174	25.2	12
5052 H32	B-16101323	.063*48*96	215	31.2	174	25.2	12
5052 H32	B-16101324	.090*48*120	217	31.5	162	23.5	12
5052 H32	B-16101324	.090*48*96	217	31.5	162	23.5	12
5052 H32	B-16101326	.080*48*120	227	32.9	193	28.0	10
5052 H32	B-16101361	.063*48*120	216	31.3	172	24.9	12
5052 H32	B-16101361	.063*48*96	216	31.3	172	24.9	12
5052 H32	B-16101440	.125*48*120	218	31.6	166	24.1	13
5052 H32	D1610035	.250*48*120	216	31.3	182	26.4	16
5052 H32	D1610035	.250*48*96	216	31.3	182	26.4	16
5052 H32	Z-1610Y5119	.063*60"C	240	34.8	197	28.6	10
5052 H32	Z-1610Y5124	.063*60"C	233	33.8	198	27.3	13
5052 H32	Z-1610Y5136	.063*60"C	237	34.4	185	26.8	11
5052 H32	Z-1610Y5139	.080*60*120	230	33.4	198	28.7	11
5052 H32	Z-1610Y5174	.125*60*120	234	33.9	192	27.8	13
5052 H32	Z-1610Y5202	.125*48"C	219	31.6	172	24.9	12
5052 H32	Z-1610Y5225	.080*60*120	233	33.0	198	28.4	10

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

This MTR contains 3 pages (Page# 1)

Customer: RYEBRA PO#:788432 SO#:LRMY74

MTR#:HECL2837.GIF

Item:..1904896606116 Bundle:ZB-1610Y6101-6 Heat#:ZB-1610Y6101

8061 T6	Z-1610Y6073	.125*60*144	343	49.7	316	45.7	11
6061 T6	ZB-1610Y6101	.190*48*96	328	47.6	246	35.7	13

PRODUCER: HENAN MINGTAI AL. INDUSTRIAL CO., LTD
COUNTRY OF MELT AND MANUFACTURE: CHINA

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
河南明泰铝业股份有限公司

管仲峰

#2753

**BRIGHTSTEELS**
LIMITEDMANUFACTURERS OF BRIGHT STEEL BARS
NORTON WORKS · MALTON · NORTH YORKSHIRE · ENGLAND · YO17 9BD

T: +44 (0) 1653 602122

F: +44 (0) 1653 695856

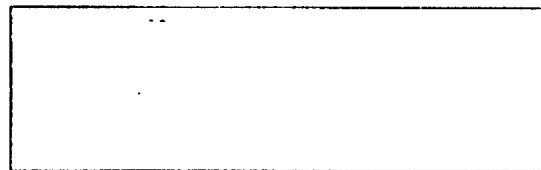
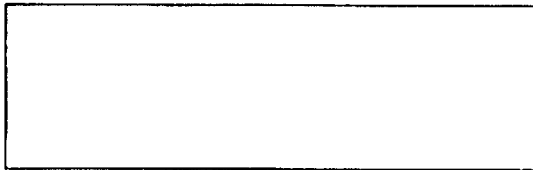
E: export@bright-steels.com

Certificate Of Analysis

Date : 22/02/2017

Number : 108633

VAT Registration No. 166 8255 35



UNLESS AGREED OTHERWISE THE MATERIAL DETAILED BELOW HAS BEEN INSPECTED AND
TESTED ACCORDING TO PROCEDURES RELATIVE TO OUR BS EN ISO 9001 REGISTRATION
TO COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND ORDER.
CONFORMS TO EN 10204 2.2. ORIGINAL CERTIFICATES ARE HELD ON FILE.

ORDER LINE	DESCRIPTION AND ORDER DETAILS	CAST NO.	BATCH NO	DESPATCH WEIGHT	UOM	QUANTITY
---------------	----------------------------------	----------	----------	--------------------	-----	----------

YOUR ORDER NO. : B 97899

OUR ORDER NO. : 172235

BRIGHT MILD FLAT TO ASTM A29-03 (A108-99) 1018

IN 12'/12'3" LENGTHS

TARIFF NO. 7215.50.11

ITEM CODE - V731331

3	1/4" X 3/4"		3071118		PRD-11754701		1400		LBS		635 KGS	
CAST	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	Sn %	Al %	
3071118	0.155	0.235	0.802	0.012	0.012	0.121	0.060	0.204	0.227	0.009	0.020	

Signed :

Eaton Steel Bar Company Inspection Certificate 1626286

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	207240	06-Mar-2017	B88205	11144 rev 003	V018242	3/4 HR RD 4140/42MM 20x12in SBQ QTSF FG MST

All bundles listed below were produced using steel from Heat M52573 issued by GERDAU-MONROE and were completed from Eaton Steel Job 805632.

Chemistry	Description	Value	Units	Heat Treating	Description	Value	Units
C	Carbon	0.40000	PMGT	TEMPER TEMP F	Temper Temp in Fahrenheit	500 - 2500	DDGF
Mn	Manganese	0.85000	PMGT	AUSTEN TEMP F	Austenitize Temp in Fahrenheit	1600 - 1700	DDGF
P	Phosphorus	0.01000	PMGT	SR TEMP F	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
S	Sulfur	0.02400	PMGT	MAGNETISM-HT	Magnetism in Gauss	0 - 20	GM
Si	Silicon	0.29000	PMGT	TIME AT TEMP	Time at Temperature	Report	-
Ni	Nickel	0.12000	PMGT	QUENCH MEDIA	Quench Media Requirements	P&W/O	-
Cr	Chromium	0.96000	PMGT	STRESS FREE	Cert stress free	CERTIFIED	-
Mo	Molybdenum	0.18000	PMGT	HT4140-42QT	Quench & Temper	CONFORMS	-
Al	Aluminum	0.03000	PMGT	Mill Processing	Description	Value	Units
Cu	Copper	0.17000	PMGT	MELT COUNTRY	Melted in Country	USA	-
V	Vanadium	0.00200	PMGT	ROLLED COUNTRY	Rolled in Country	USA	-
Co	Columbium	0.00200	PMGT	RED RATIO	Reduction Ratio	81.50	RED
N	Nitrogen	0.00000	PMGT	ASTM Standard	Description	Value	Units
P-S	Element Sum Limit	0.03400	PMGT	A193/193M-01	Grade 87	CONFORMS	-
DI	Ideal Diameter	5.07000	IN	A436-90a-BC	ASTMA BC Tensile and Yield properties	CONFORMS	-
Cleanliness	Description	Value	Units	Structure	Description	Value	Units
MACRO ETCH	Report macro etch results.	-	-	PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
Geometry	Description	Value	Units	MICROSTRUCTURE	Reported Microstructure	TM	-
DIAMETER	Diameter	0.7420 - 0.7580	IN	Tag Number	Qty/Units	Length	
Geometry	Description	Value	Units	022-1921471	3305 LBS	20ft	
J1	1/16 inch from Quenched End	56	HRC	ASTM A304			
J2	2/16 inch from Quenched End	56	HRC				
J3	3/16 inch from Quenched End	56	HRC				
J4	4/16 inch from Quenched End	56	HRC				
J5	5/16 inch from Quenched End	56	HRC				
J6	6/16 inch from Quenched End	56	HRC				
J7	7/16 inch from Quenched End	54	HRC				
J8	8/16 inch from Quenched End	53	HRC				
J9	9/16 inch from Quenched End	52	HRC				
J10	10/16 inch from Quenched End	50	HRC				
J11	11/16 inch from Quenched End		HRC				
J12	12/16 inch from Quenched End	48	HRC				
J14	14/16 inch from Quenched End	46	HRC				
J16	16/16 inch from Quenched End	44	HRC				
J18	18/16 inch from Quenched End	43	HRC				
J20	20/16 inch from Quenched End	42	HRC				
J22	22/16 inch from Quenched End		HRC				
J24	24/16 inch from Quenched End	40	HRC				
J28	28/16 inch from Quenched End	38	HRC				
J32	32/16 inch from Quenched End	36	HRC				
Mechanical	Description	Value	Units				
TENSILE PSI	Tensile Strength in PSI Units		PSI				
YIELD PSI	Yield Strength in PSI Units		PSI				
ELONGATION	Percent Elongation		PCT				
REDUCTION	Percent Reduction in Area		PCT				
BRINELL SURF	Brinell Surface	286.0	BHN				

Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual QM-00001 / Rev 3 / 2/26/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 06-Mar-2017

Thomas Snabes, Corporate Metallurgist

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10221 Capital Avenue, Oak Park, MI 48237 USA
http://www.eatonsteel.com

Tel: 248-398-3434
Fax: 248-398-1434

67967 #



GERDAU SPECIAL STEEL NORTH AMERICA
5591 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER 142324	CUSTOMER PART NUMBER 1012462/4140EFVD	TEST NUMBER M52573	WORK ORDER NUMBER 283416 101	DATE 11/05/13
---------------------------------	--	-----------------------	---------------------------------	------------------

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK, MI 48237

9
9-86

SHIP TO
EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM, AL 35124

ORDERED

GRADE 4140	SIZE 0 3/4"	RND	LENGTH 20' 2"
---------------	----------------	-----	------------------

CUSTOMER SPECIFICATIONS
ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
0.40	0.85	0.010	0.024	0.25	0.12	0.96	0.18	0.17	0.008	0.030
V	Nb									
0.002	0.002									

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY SPECIFICATION ASTM A255/A304

THEORETICAL										
J1	2	3	4	5	6	7	8	9	10	11
56	56	56	56	56	56	54	53	52	50	48

DI CALCULATION SPECIFICATION CAT 1E0024

5.07

REDUCTION RATIO SPECIFICATION ITEM 1012462

RATIO= 81.5 TO 1.0

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig
Quality Assurance Representative

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA
5191 MORRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTOMER ORDER NUMBER	CUSTOMER PART NUMBER	CRAT NUMBER	HEAT ORDER NUMBER	DATE
142324	1012462/4140EFVD	M52573	283416 101	11/05/13

Daniell Cast

SHIP TO

REPORT TO
DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK , MI 48237

EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
PELHAM , AL 35124

ORDERED

GRADE	THICKNESS	RND	LENGTH
4140	0 3/4"		20' 2"

CUSTOMER SPECIFICATIONS

ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P+S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1: MEETS SAE J422
SS/05 RATING (WORST FIELD);
** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.


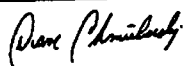
PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monroe
3000 East Front Street
Monroe, MI 48161

Wendy J. Craig
Wendy J. Craig
Quality Assurance Representative

cert 377069

 Vulcan THREADED PRODUCTS, INC.		Vulcan Threaded Products 10 Cross Creek Trail Prichard, AL 35124 Tel (205) 820-6100 Fax (205) 820-6180		JOB MATERIAL CERTIFICATION					
Job No: 344313 Containers: S7521278 S7525298		Job Information		Certified Date: 12/7/13					
Test Results									
Test No: 25758 Test: Quench & Temper Physicals (Lbs)									
Description	Tensile (psi)	Yield 0.2% Offset (psi)	Elongation (%)	Elongation Gage Length	ROA (%)	Midline Hardness (HRC)	Surface Hardness (HRC)	Center Hardness (HRC)	Note
Quench & Temper Physicals Results	143,200	128,700	17.4	40	63	31	30		
Test No: 25757 Test: Quench & Temper Information (Lbs)									
Description	Tempering Temp (F)	Run Speed (F/min)	Quench Water Temp (F)						
Quench & Temper Information Results	1,314	43.50	91.5						
 Chmielewski, David - Supervisor						12/7/13 Date			

Print Online 12/7/13 8:44 AM vulc down Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B1.000x2.000

PO / BATCH NO.: 03825/S008416

DATE: 11.11.19

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.000"

QUANTITY RECEIVED: 20'

THICKNESS RECEIVED: 1.000"

QUANTITY INSPECTED: 20'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	2XD70413
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-80</u>	SIGNED OFF BY: _____
DATE: <u>11.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN **20pcs** FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

1.000 X 2.000

DAS

9

9-88

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
ms

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>JP</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>MS</i>	M6061T6B	SHEET 1 OF 1
APPROVED	<i>MS</i>	TITLE	SCALE
DE APPR.	<i>MS</i>	6061-T6 BAR	NTS
DATE	09.07.13	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR EXPOSED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B2.000X1.250

PO / BATCH NO.: 034285 / 3008419

DATE: 11-16

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-229/B
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	WT# 385790
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>11-16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

2.000X12.50

DAS
9
9-89

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AS	DRAWING NO.	REV. B
CHECKED	AS	M6061T6B	SHEET 1 OF 1
MFG. APPR.	AS	TITLE	SCALE
APPROVED	AS	6061-T6 BAR	NTS
DE APPR.	AS	DATE 09.07.13	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176B1.500X2.000

PO / BATCH NO.: 038285 / 8008417

DATE: 17.11.16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.500"

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.500"

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>AMS-QQ-A-200/3</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>47# 3B5139</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>Das</u> <u>9</u> DATE: <u>17.11.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
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 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.500X2.00

DAS
9-88

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	DS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	DS	DRAWING NO.	REV. B
MFG. APPR.	DS	M6061T6B	SHEET 1 OF 1
APPROVED	DS	TITLE	SCALE
DE APPR.	DS	6061-T6 BAR	NTS
DATE	09.07.13	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR FOR ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S.133
DATE: 17.11.16

PO / BATCH NO.: P0033285/3003427

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 32'
QUANTITY INSPECTED: 32'
QUANTITY REJECTED: 0

THICKNESS ORDERED: .133
THICKNESS RECEIVED: .133
SHEET SIZE ORDERED: 4'x8'
SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	QMS-QQ A-250
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	HT# 2B1610Y6101
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>17-11-16</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

(B)

PART NUMBER: M6061T6S | XXX |
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

.138

DAS
9
9-88

RELEASED
2009-09-10

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		M6061T6S	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		6061-T6 SHEET SPEC	NTS
DATE	09.07.13	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 460 DITBS.030
 DATE: 11.11.16

PO / BATCH NO.: 10038285 / 5008426

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 32'
 QUANTITY INSPECTED: 32'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .080
 THICKNESS RECEIVED: .030
 SHEET SIZE ORDERED: 4'x8
 SHEET SIZE RECEIVED: 4'x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	AMS-QQ-250
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	47# 353972
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>9-80</u>	SIGNED OFF BY: _____
DATE: <u>11.11.16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN **20pcs** FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S | .XXX |
THK |

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

DAS
9
9-00

RELEASED
2009-09-10

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061T6S	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 SHEET SPEC	NTS
DE APPR.		DATE 09.07.13	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML01/TLR1.000
 DATE: 17/11/16

PO / BATCH NO.: 38285/5008424

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ASTM A221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HEAT# 36585
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ML01/TLR1.00
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5008424
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>17/11/16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221



PART NUMBER: M6061T6R|D.DDD|
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

R1.00 and 17/16

RELEASED
2009-09-09
MP

B	REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6R TITLE 6061-T6 ROUND BAR SHEET 1 OF 1 SCALE NTS COPYRIGHT © 2001 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS RECOGNITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 160617680.750X2000
 DATE: 17.11.19

PO / BATCH NO.: 038285 / 4 S008421

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750"
 THICKNESS RECEIVED: .750"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	70630
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>9</u>		SIGNED OFF BY: _____	
DATE: <u>17.11.19</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.750x1.000

PO / BATCH NO.: 084285 / 3008422

DATE: 11.11.19

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750'
 THICKNESS RECEIVED: .750'
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-200/3
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	362323
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u>	SIGNED OFF BY: _____
DATE: <u>11.11.19</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZIN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M6061T6B REV. B SHEET 1 OF 1 TITLE 6061-T6 BAR SCALE NTS DATE 09.07.13	
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS	COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B20.625
 DATE: 17.11.19

PO / BATCH NO.: 080205 / S0003423

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .625"
 THICKNESS RECEIVED: .625"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	66092
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>17.11.19</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORRINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

b25

DAS
9
9.89

RELEASED
2009-09-08
JAP

B	REFORMAT DWG. ADD B211 & B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		M6061T6R	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		6061-T6 ROUND BAR	NTS
DATE	09.07.13	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T681.250

DATE: 17.11.19

PO / BATCH NO.: 03B285/3008405

MATERIAL CERT REC'D: yes

QUANTITY RECEIVED: 200

QUANTITY INSPECTED: 40'

QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"

THICKNESS RECEIVED: 1.250"

SHEET SIZE ORDERED: 11/11

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A229
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	68467
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.					
RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: 9 9.10

SIGNED OFF BY: _____

DATE: 12.11.17

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DDD]
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

1.250
DAS
9
9.50

RELEASED
2009-09-09
JAP

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	#	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	#		
CHECKED	#	DRAWING NO.	REV. B
MFG. APPR.	#	M6061T6R	SHEET 1 OF 1
APPROVED	JAP	TITLE	SCALE
DE APPR.	#	6061-T6 ROUND BAR	NTS
DATE	09.07.13	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140 HR0.750

PO / BATCH NO.: 80034205 / 5008429

DATE: 17.11.21

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .750"

QUANTITY RECEIVED: 6

THICKNESS RECEIVED: .745"

QUANTITY INSPECTED: 6

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A304
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	152573
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>PD</u>	SIGNED OFF BY: _____
DATE: <u>17.11.21</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
- 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
- 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
- 4- VERIFY THAT MATERIAL CERTS MATCH TO WHAT'S CALLED UP ON THE DART DRAWING

AFTER MATERIAL PASSES INSPECTION

- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
- 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	SCALE 1:1
A	05.02.21	NEW ISSUE	

750 DAS
9
9-80

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03-GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 100 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG. 7/8" ROUND BAR = M4140H-R0.875

RELEASED
05.03.25

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018 B1.000X16.000
 DATE: 12/11/17

PO / BATCH NO.: 38285/S008424

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

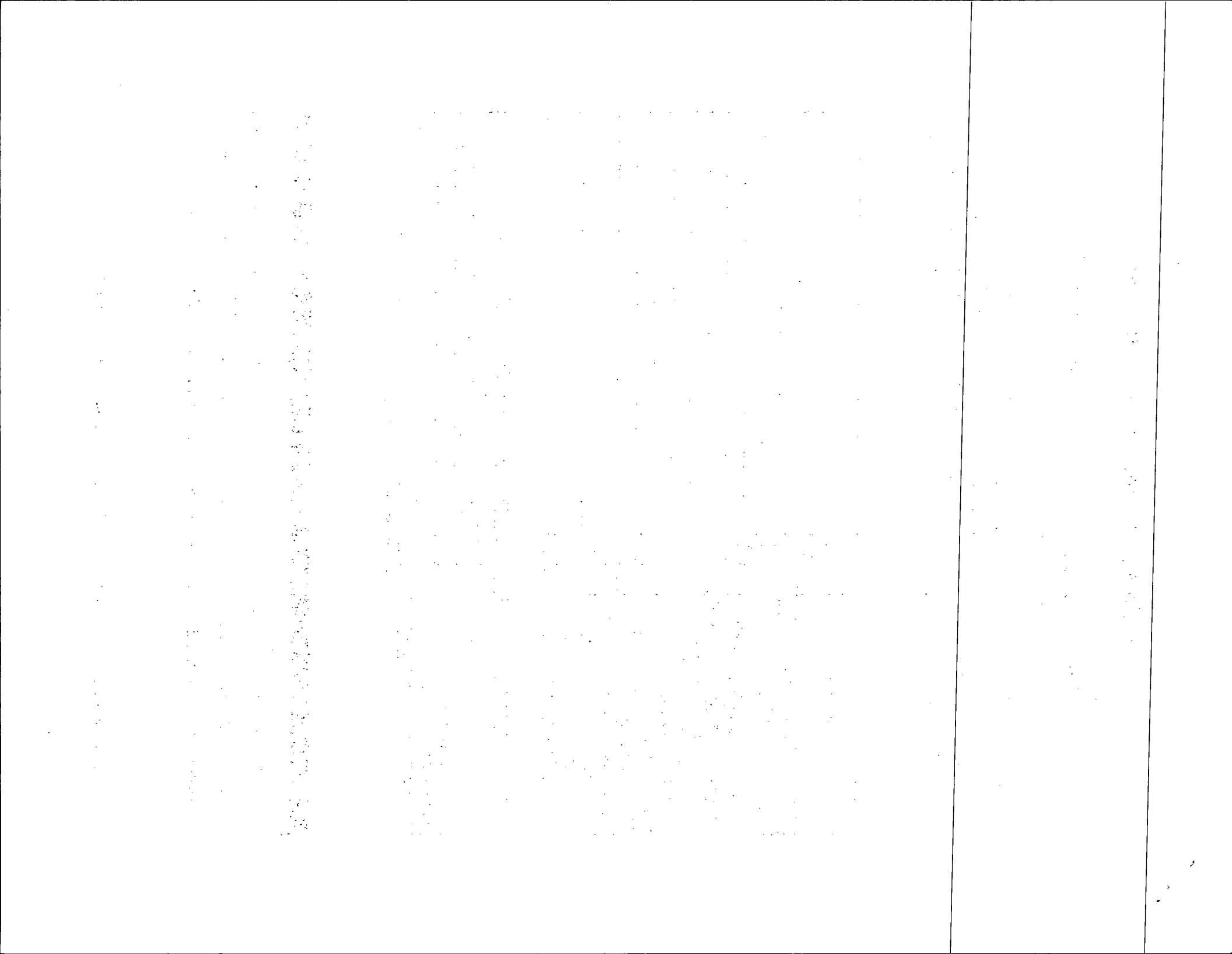
DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/>	N	
CORROSION	Y	<input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/>	N	
CORRECT THICKNESS	<input checked="" type="radio"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/>	N	HEAT # 3066812
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/>	N	M1018 B1.000X16.00
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/>	N	S008424
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: _____		
DATE: <u>12/11/17</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN 	DRAWN BY 	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED CP	APPROVED 	DRAWING NO. M1010-B	REV. A SHEET 1 OF 1
DATE 01.12.06		TITLE AISI 1010-1025 BAR SCALE NTS	
A	01.12.06 NEW ISSUE		

PURCHASE MATERIAL: AISI 1010-1025 OR ASTM A36 / A366 / A569 / A570
OR CSA G40-21, 38W / 44W / 50W / 60W / 70W

PART NUMBER:

M1010-B | T.TTT | x | WW.WWW | WHERE T.TTT = THICKNESS (IN INCHES)
THICK | WIDTH | WW.WWW = WIDTH (IN INCHES)

EG. 0.75" x 2.50" BAR = M1010-B0.750 x 02.500

RELEASED
01.12.07

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 1160617681.500x4.000

PO / BATCH NO.: 038285/3003413

DATE: 12.11.16

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.500"

QUANTITY RECEIVED: 12'

THICKNESS RECEIVED: 1.500"

QUANTITY INSPECTED: 12'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>AMS-20-A-200/B</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>HT# 201704805</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>17.11.16</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- ~~VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS~~
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
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 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
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- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORR DINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR ~~AMS-QQ-A-200/8~~ (OR AMS 4160)
OR ASTM B211 OR ASTM B221

B

PART NUMBER: M6061T6B T.TTT X WW.WWW
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.500X 4.000

DAS
9
9-89

RELEASED
2009-09-03
[Signature]

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	M6061T6B	SHEET 1 OF 1
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	6061-T6 BAR	NTS
DATE	09.07.13	<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

FCK-16

Flat CR 176
H6961**EAGLE BAR INC.**

3719 S. Kedzie Ave.
Chicago, Illinois 60632
800-621-6126
In Ill. Call (773)847-5382
(773)847-5287

Inspec. N.: 2010995 Page

Date: 01-25-2016 1 of 2

COLD FINISHED STEEL TEST CERTIFICATE

Customer: LES ACIERS TRANSBEC(1997)
LTEE

LAVAL, QUEBEC ()

Delivery Note: 18346

P.O.Nº.	Shape	Size	Quality	Lbs.	Remarks
1	CA-44099	RD 1.1/4" (1,2496"-1,2492")	12L14	2,222	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
2	CA-44099	FLAT 1" x 2"	SAE1018	2,458	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
3	CA-44099	RD 2.1/2" (2,5000"-2,4976")	SAE1018	2,227	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
4	CA-44099	RD 4" (4,0000"-3,9961")	SAE1018	2,438	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
5	CA-44099	SQ 1.1/8" ()	SAE1018	2,388	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
6	CA-44099	SQ 4" ()	SAE1018	2,637	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
7	OU-45163	FLAT 1/2" x 5" FCK-25	SAE1018	2,449	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
8	OU-45163	FLAT 1/2" x 6" FCK-26	SAE1018	2,445	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
9	OU-45163	FLAT 1/2" x 8" FCK-28	SAE1018	2,427	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
10	OU-45163	FLAT 3/4" x 6" FCK-30	SAE1018	2,401	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
11	OU-45163	FLAT 3/4" x 8" FCK-32	SAE1018	2,423	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
12	OU-45163	FLAT 1" x 5" FCK-34	SAE1018	2,668	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
13	OU-45163	FLAT 1" x 6" FCK-36	SAE1018	2,458	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
14	OU-45163	FLAT 1" x 8" FCK-38	SAE1018	2,284	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
15	OU-45163	FLAT 2" x 2.1/2" FCK-40	SAE1018	2,469	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
16	OU-45163	FLAT 2" x 3" FCK-42	SAE1018	2,227	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
17	OU-45163	FLAT 2" x 4" FCK-44	SAE1018	2,304	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
18	OU-45163	RD 1.1/8" (1,1244"-1,1240") FCK-46	SAE1018	2,072	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
19	OU-45163	SQ 1.1/4" (0,0000"-0,0000") FCK-48	SAE1018	2,787	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
20	OU-45163	SQ 2.1/2" (0,0000"-0,0000") FCK-50	SAE1018	2,831	ACCORDING TO NORM ASTM A-108-13 LEVEL 1

Chemical Composition According to EN 10204-2.2

Heat N°.	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Pb	%Al	%Cu	%N	%Sn	%Ti
1	110640	0.068	0.012	1.150	0.048	0.285	0.022	0.027	0.009	0.282	0.003	0.044		
2	CE579934	0.160	0.160	0.730	0.013	0.016	0.090	0.120	0.017		0.004	0.330	0.011	0.016
3	888562	0.166	0.273	0.799	0.009	0.026	0.067	0.024	0.007		0.026	0.027	0.005	
4	888562	0.166	0.273	0.799	0.009	0.026	0.067	0.024	0.007		0.026	0.027	0.005	
5	CE572896	0.160	0.160	0.730	0.009	0.017	0.070	0.090	0.014		0.003	0.210	0.012	0.007
6	40204	0.155	0.210	0.760	0.022	0.017	0.160	0.080	0.020		0.012	0.160		0.009
7	3067060	0.162	0.195	0.779	0.012	0.014	0.092	0.176	0.045		0.019	0.233		0.009
8	CE577933	0.160	0.170	0.750	0.012	0.013	0.070	0.110	0.018		0.003	0.240	0.012	0.011
9	3066237	0.150	0.221	0.804	0.011	0.006	0.135	0.170	0.064	0.001	0.016	0.193		0.012
10	CE578591	0.160	0.150	0.740	0.013	0.020	0.070	0.100	0.025		0.003	0.210	0.013	0.009
11	3066236	0.152	0.211	0.801	0.008	0.006	0.094	0.122	0.038	0.001	0.016	0.193		0.013
12	3067061	0.156	0.183	0.787	0.011	0.016	0.109	0.180	0.053		0.018	0.229		0.009
13	3066812	0.150	0.174	0.754	0.007	0.009	0.142	0.164	0.062	0.001	0.017	0.191		0.008
14	3066267	0.156	0.236	0.826	0.010	0.007	0.147	0.166	0.044	0.001	0.018	0.273		0.012
15	3064756	0.155	0.213	0.776	0.011	0.008	0.088	0.150	0.037		0.018	0.220	0.010	0.003
16	3062925	0.155	0.211	0.787	0.024	0.005	0.219	0.221	0.065		0.018	0.208	0.009	0.005
17	3065409	0.158	0.201	0.727	0.008	0.009	0.132	0.202	0.057		0.018	0.233	0.010	0.004
18	109543	0.160	0.126	0.715	0.010	0.010	0.073	0.070	0.008		0.003	0.146	0.009	
19	V37878	0.163	0.252	0.773	0.011	0.004	0.113	0.215	0.049		0.025	0.287	0.014	
20	41718	0.165	0.230	0.800	0.015	0.011	0.150	0.070	0.010		0.012	0.160	0.008	0.002

STEEL FREE OF MERCURY AND ANY RADIOACTIVE SUBSTANCES

Quality Management



EAGLE BAR INC.

3719 S. Kedzie Ave.
Chicago, Illinois 60632
800-621-6126
In Ill. Call (773) 847-5382
(773) 847-5287

Inspection No.: 2010995 Page

Date: 01-25-2016 2 of 2

COLD FINISHED STEEL TEST CERTIFICATE

Customer: LES ACIERS TRANSBEC(1997)
LTEE

LAVAL, QUEBEC ()

Delivery Note: 18346

	P.O. No.	Shape	Size	Quality	Lbs.	Remarks
21	OU-45163	SQ	3'' (0,0000''-0,0000'')	SAE1018	2,595	ACCORDING TO NORM ASTM A-108-13 LEVEL 1
22	OU-45163	SQ	4'' (' ')	SAE1018	2,639	ACCORDING TO NORM ASTM A-108-13 LEVEL 1

Chemical Composition According to EN 10204-2.2

Heat No.	%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Mo	%Pb	%Al	%Cu	%N	%Sn	%Ti
21 41626	0.165	0.220	0.710	0.015	0.021	0.090	0.070	0.010		0.011	0.180		0.011	0.002
22 40204	0.155	0.210	0.760	0.022	0.017	0.160	0.080	0.020		0.012	0.160		0.009	

STEEL FREE OF MERCURY AND ANY RADIOACTIVE SUBSTANCES

Quality Management



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
CI001-C		2	1	Net 30	M2024T3S.035	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf				48	11/13/2017	48		S009810	Stock	11/14/2017	\$ 4.48 / sf	0		\$215.00	Acier Ouellett Inc.
		7			M5061T6B2.000X03.500	6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Heat?		6		6		S009811	Stock	11/14/2017	\$ 40.70 / ft	0		\$244.20	Acier Ouellett Inc.
		14			M5061T6B3.250	6061-T6 Round Bar 3.250" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				36		36		S009812	Stock	11/14/2017	\$ 30.77 / ft	0		\$1,107.85	Acier Ouellett Inc.
		15			M6061T6S.020	6061-T6 Sheet .020 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				48		48		S009813	Stock	11/14/2017	\$ 1.74 / sf	0		\$83.37	Acier Ouellett Inc.
		17			M6061T6S.063	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				64		64		S009814	Stock	11/14/2017	\$ 2.76 / sf	0		\$176.42	Acier Ouellett Inc.
		20			M304B1.000X1.000	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				24		23		S009815	Stock	11/14/2017	\$ 13.46 / ft	0		\$309.77	Acier Ouellett Inc.
		21			M303B0.500	303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft				48		50		S009816	Stock	11/14/2017	\$ 1.97 / ft	0		\$98.70	Acier Ouellett Inc.
Total:										274		275									\$1,756.01



DELIVERY - CLIENT

COPY CO00060831

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/14**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
1	ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12' HEAT: AC11066-JG-13/11	36.05	24.00	PI_\$CLB			2x 12'					
2	ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12' HEAT: AC11063-SA-13/11	21.65	48.00	PI2_\$CLB		1x 4'x12'						
3	ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT	57.28	2.00	PI2_\$CLB		1x 3 1/2" x 72"						

NIR : R-109516-6

SP 11-14

Next Page...



DELIVERY - CLIENT

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056
Date 2017/11/07
Delivery date **2017/11/14**
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Billed to
DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
	COUPE A LA SCIE SCIE 1 MATERIEL DOIT ETRE STAMPER		1.00	UN								
4	ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152 3 X 12' HEAT: AC11063-SA-13/11	350.64	36.00	PI_\$CLB		3x 12'						
5	ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048 1 X 4' X 12' HEAT MATERIEL DOIT ETRE STAMPER	13.54	48.00	PI2_\$CLB		1x 4'x12'						

NIR : R-109516-6

2017-11-14

Next Page...



DELIVERY - CLIENT

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Billed to

Shipped to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

3

	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
					CMD	EXP	B/O	IN	I	S	C	OUT
6	ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 3131 3 X 4' X 12' HEAT	81.07	144.00	PI2_\$CLB			3x 4'x12'					
7	ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 2 X 4' X 8' HEAT	57.66	64.00	PI2_\$CLB		2x 4'x12'						
8	SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 2 X 12' R/L HEAT	81.60	24.00	PI_\$CLB		1x13' 1x9'11'						
9	ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' HEAT AC11066-JG-13/11	32.02	48.00	PI_\$CLB		4x 12'1/2'						

NIR : R-109516-6

PPA-11-14

Next Page...

Total (\$CAD)



DELIVERY - USINE

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N°

CLI0001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
1 ROUND SS 3/4 17-4PH NS RSS-34174 9268 2 X 12" HEAT: AC11066-JG-13/11	36.05	24.00	PI1_\$CLB								
2 ALU SHEET .032 (20G) 2024-T3 (4 X 12) BARE FEAL-0324122024 3093 1 X 4' X 12" HEAT: 37876 AC11063-SA-13/11	21.65	48.00	PI2_\$CLB								
3 ALU PLATE 2 6061-T651 RANDOM PAL-26061-V 7470 1 X 3 1/2" X 72" HEAT : 70175749 / s37055730	57.28	2.00	PI2_\$CLB								

NIR : R-109516-6

Next Page...



DELIVERY - USINE

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056
Date 2017/11/07
Delivery date 2017/11/14
Your order N° 38285
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
COUPE A LA SCIE SCIE 1		1.00	UN								
MATERIEL DOIT ETRE STAMPER 4 ROUND ALU 3 1/4 6061-T6 RANDOM RAL-314-V 5152	350.64	36.00	PI_\$CLB								
3 X 12' HEAT: 223825B1 AC11063-SA-13/11											
5 ALU SHEET .020 (24G) 6061-T6 (4 X 12) FEAL-0204126061 3048	13.54	48.00	PI2_\$CLB								
1 X 4' X 12' HEAT: 68424/01/00 MATERIEL DOIT ETRE STAMPER											

NIR : R-109516-6

Next Page...



DELIVERY - USINE

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Customer N°

CL10001056

Date

2017/11/07

Delivery date

2017/11/14

Your order N°

38285

Processed by

Josianne Bourdon

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

3

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
6 ALU SHEET .040 (18G) 6061-T6 RANDOM FEAL-0406061-V 31313121 3 X 4' X 12' HEAT:	81.07	144.00	PI2_\$CLB			/					
7 ALU SHEET .064 (14G) 6061-T6 (4 X 8) FEAL-064486061 3175 2 X 4' X 8' HEAT: 61011/01/00	57.66	64.00	PI2_\$CLB								
8 SQUARE SS 1 SS304 RANDOM CSS-1-V 2085 2 X 12' R/L HEAT: 269432	81.60	24.00	PI_\$CLB								
9 ROUND SS 1/2 303 RANDOM RSS-12303-V 5727 4 X 12' HEAT AC11066-JG-13/11	32.02	48.00	PI_\$CLB			/					

NIR : R-109516-6

Next Page...

#7470

2195

MILL TEST CERTIFICATE	No: 15063 Date: 6/29/2017	CERTIFIED SRAC-IQNo1 ISO 9001:2008 No.10241012017	vimetco
			alro SLATINA

CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 2195

BILL OF DELIVERY : 80325427

TRUCK/CONTAINER : GSTU 6265152

MATERIAL : ALUMINIUM PLATES

ALLOY : 6061

TEMPER: T651

LOT/DIMENSIONS (mm): 70175749 2"THX48.5"WDX144.5"LT

ACCORDING TO : ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

ACTUAL MECHANICAL PROPERTIES						1 MPa = 1 N/mm ² = 0.145 ksi = 0.102 kgf/mm ²						
1 lbs = 0.4536 kg						UTS		YTS		Elong.%		
						KSI		KSI		50mm		
						min.	max.	min.	max.	min.		
Specified values:						42		35		8		
LOT / BATCH		CASE		NET WEIGHT lbs		Measured values:						
70175749 S37055730		548549;548551		5,560.063		48		41.7		14.5		
						48.2		41.5		13		
ACTUAL CHEMICAL ANALYSIS %												
BATCH	SI	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S37055730	0.72	0.50	0.25	0.12	0.98	0.17	0.012	0.04	0.014	0.009	0.016	REM.
												REM.
												REM.
Acc. Standard	Min.	0.4		0.15		0.8	0.04					REM.
	Max.	0.8	0.7	0.4	0.15	1.2	0.35	0.05	0.25	0.15	0.05	0.05
Remarks:						Other- Each- Max.: 0.05			Others Total- Max.: 0.15			

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2015; AMS-QQ-A-250/11:1997
We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperatures variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminium Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.
Adrian Calota, Eng.ALRO S.A. No.116, Pitesti Street Phone: + (40) 0249 435 117; 0249 432 556 alro@alro.ro
230048-Slatina-ROMANIA Fax: (40) 0249 411 487; 0249 416 992 www.alro.ro

ALRO SA SLATINA
Punct de lucru Slatina
Strada 116
Slatina, Romania

cod f1/PO-051/Rev.4/2012

PAC 2V

PO 11063

MILL TEST

CERT CODE: 9		DIE NUMBER S 4666		DATE OF SHIPMENT Sep/21/2017	EX ORDER NO. 209739 — 1	MANIFEST NO. 378090
CUSTOMER PO C74839		ALLOY 6061	TEMPER T6511	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
SO DESCRIPTION 3 1/4" ROD		CUSTOMER PART NUMBER V815211		PART DESCRIPTION 3 1/4" ROD		CERTIFICATION ASTM B221-14 - AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061 R599300	Sep/21/2017	50.20	47.00	9.00	91.2,91.5,91.8	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
37876	A.11	6061	0.551	0.197	0.19	0.0681	0.834	0.0591	0	0.0099	0.0121	0	0	0	0	0	0	0	0	0	Remainder	0

amk 17/11/16

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

DART

PO 11063

T. Mohabir

Tulsiram Mohabir
Quality Control Manager

1 - CUSTOMER COPY

7470

2195

MILL TEST CERTIFICATE	No: 15063 Date: 6/29/2017	CERTIFIED SRAC-IQNet ISO 9001:2008 No.10 valid 2017	vimetco
			alro SLATINA

CUSTOMER : OLBERT METAL SALES LIMITED

CONTRACT/ORDER : 2195
 BILL OF DELIVERY : 80325427
 TRUCK/CONTAINER : GSTU 6265152

MATERIAL : ALUMINIUM PLATES
 ALLOY : 6061
 LOT/DIMENSIONS (mm) : 70175749 2"THX48.5"WDX144.5"LT
 TEMPER: T651

ACCORDING TO : ASTM B209; AMS 4027N; ANSI H35.2; ASME SB209; AMS-QQ-A-250/11

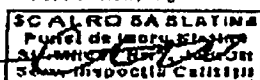
ACTUAL MECHANICAL PROPERTIES						1 MPa = 1 N/mm2 = 0.145 ksi = 0.102 kgf/mm2						
1 lbs = 0.4536 kg						UTS		YTS		Elong.%		
						KSI		KSI		50mm		
Specified values:						min.	max.	min.	max.	min.		
						42		35		8		
LOT / BATCH		CASE		NET WEIGHT lbs		Measured values:						
70175749 S37055730		546549;548551		5,560.063		48		41.7		14.6		
						48.2		41.5		13		
ACTUAL CHEMICAL ANALYSIS %												
BATCH	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Al
S37055730	0.72	0.56	0.25	0.12	0.98	0.17	0.012	0.04	0.014	0.009	0.016	REM.
												REM.
Acc. Standard	Min.	0.4		0.15		0.8	0.04					REM.
	Max.	0.8	0.7	0.4	0.15	1.2	0.35	0.05	0.25	0.15	0.05	0.05
Remarks:						Other- Each- Max.: 0.05			OthersTotal- Max.: 0.15			

REMARKS:

ACCORDING TO: ASTM B209:2014; AMS 4027N:2008; ANSI H35.2:2013; ASME SB209:2016; AMS-QQ-A-250/11:1997
 We hereby certify that the material detailed hereon has been produced and tested according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperatures variations. The differences between metal and air must not exceed 11 °C. Please follow the recommendations of the Aluminum Association Guide for minimizing water staining, latest edition, for the unloading and storage of the material in your premises before usage. Also we certify that ALRO products complies with REACH legislation no. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and packaging of substances and mixtures.

According to EN 10204:2004 3.1

QUALITY CONTROL DEPT.
 Adrian Calota, Eng.



ALRO S.A. No.116, Pitești Street Phone: +(40) 0249 435 117; 0249 432 956 alro@alro.ro
 230048-Slatina-ROMANIA Fax: (40) 0249 411 467; 0249 415 992 www.alro.ro

cod 11/PO-051/Rev.4/2012

PAC 2V

#152 CO.60831 DART

PO.11063
2P-

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468995

CUSTOMER PO NUMBER: C74354-6	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103971/14	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1237228-6	SHIP DATE: 6-JUL-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3
WEIGHT SHIPPED: 2316 LB	QUANTITY: 103 PCS EST.	TRUCK B/L #: 2067707	GAUGE: 0.0320 IN (0.8128 MM)	PRODUCT DESCRIPTION: HT Flat Sheet
			DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2118353: LOT 223825B1: 103 pieces: **D349126**

Certified Specifications

✓ AMS 4037/RevQ
CMMP 019/RevD

✓ AMS-QQ-A-250/4/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 223825B1

Cast 433

Drop 59

Test Results

Ingot 1

Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	68.6 : 68.9 (473 : 475)	47.3 : 47.5 (326 : 328)	17.1 : 18.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.07	0.23	4.8	0.53	1.4	0.01	0.11	0.02	0.01	0.01	TOT 0.05

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468995

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.672-11a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1216 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

#3048

Page-246V

AMAG
ROLLINGAbnahmeprüfzeugnis 3.1 (EN 10204)
inspection certificate - mill certificateNr.: 85186414 01 / 1
Rev.: 0

Seite / page: 1 von / of 2

Datum / date: 2014 12 03

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Bestell Nr. / order no.:	C 68981
Datum / date:	2014 07 02
Auftragsbest. Nr. / order confirm no.:	678422
Datum / date:	2014 07 03
Lieferschein Nr. / delivery note:	85186414
Datum / date:	2014 12 31

Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-00-A-250/11, 0.1997
Zustand / temper: T6	ASTM B 209 - 10
Dim. / dim.: [inch]: 0,020x48,00x144,00	AMS 4027N, 07.2008
	Cessna CMMF019, Rev. D, 09-07-01
	Cessna CMMF025, Rev. U, 05-26-11
	Sondervorschrift / special terms:

ABN- Prod. Code	Material Code	Order Code	Material	Weight	Weight	Weight
02	68424/01/00	01/0065730/4	6061	6784220018	2405,203 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220019	2387,566 lbs	177
02	68424/01/00	01/0065730/4	6061	6784220020	2409,612 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220021	2414,021 lbs	179
02	68424/01/00	01/0065730/4	6061	6784220022	2482,363 lbs	179

Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0065730/4	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,71	0,43	0,26	0,14	0,93	0,19	0,10	0,06	0,02	0,04
	actual										

BNr/Los	Zustand	Richtung	Testa	UTS	YS	A2"			
Lot/No.	temper	direction		[ksi]	[ksi]	[%]			
				spec.min.	42,0	35,0	8		
				spec.max.	-	-	-		
68424/01	T6	LT	8	from	49,7	42,5	12		
68424/01	T6	LT		to	50,2	43,4	14		

AMAG rolling GmbH, Postfach 32, A-5282 Ranshofen, Österreich - www.amag.at
AMAG rolling GmbH, P.O. Box 32, A-5282 Ranshofen, Austria - www.amag.atPD
D464406
D464407
D464408
D464409
D464422

AMAG_

ROLLING

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85186414 01 / 1

Rev.: 0

Seite / page: 2 von / of 2

Datum / date: 2014 12 03

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests:
Biegeversuch: OK. / Transverse bend test: OK.
Maßkontrolle: OK. / Dimensional Check: OK.
Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes:
Die Dimensionstoleranzen entsprechen ANSI XXX /
As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Aufträge) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUK/SA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto The Quality Management System arrangements in respect of these supplies comply with the requirements of AUK/SA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland approval supplier code V21275

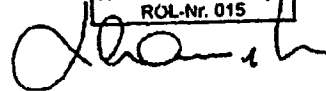
Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkstatt / factory: Klamper Josef	E-Mail / email: josef.klamper@amag.at
---	--

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.
Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.

AMAG rolling
Werkstattnvorstandiger
ROL-Nr. 015



#3175

AMAG
STEEL**Abnahmeprüfzeugnis 3.1 (EN 10204)**
Inspection certificate - mill certificate

Nr.: 85150377

01 / 4

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2015 11 10

Zertifiziert nach / certified in ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer:	Bestell Nr. / order no.:	C 70532
	Datum / date:	2015 05 20
	Auftragsbest. Nr. / order confirm no.:	693391
	Datum / date:	2015 05 21
Warenempfänger / consignee:	Lieferschein Nr. / delivery note:	85150377
	Datum / date:	2015 11 30

Produkt / product	Bedingungen / terms
Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-QQ-A-250/11, 08.1997
Zustand / temper: T6	ASTM B 209 - 14
Dim. / dim.: [inch]: 0,063x48,00x98,00	AMS 4027H, 07.2008
	Cessna CMMP019, Rev. D, 09-07-01
	Cessna CMMP025, Rev. V, 2-20-15
	Sondervorschrift / special terms:

AB-Pos. ord.-item.	BNr./Loc. Lot/No./Part	Guss-Nr. cast no.	Werkstoff material	Kette package	Gewicht netto weight net	Stk. pcs.
06	61011/01/00	01/0072091/5	6061	6933910027	2409,612 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910028	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910029	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910030	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910031	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910032	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910033	1560,847 lbs	55

Chemische Zusammensetzung [%] (Gewichtsanteile) / Chemical composition [%] weight proportion (OES)												
Guss-Nr. / cast no.	material	Si	P	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total	
01/0072091/5	6061											
	spec. min.	0.40	-	0.15	-	0.80	0.04	-	-	-	-	
	spec. max.	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	0.05	0.15	
	actual	0.68	0.44	0.24	0.12	0.88	0.18	0.06	0.03	0.02	0.03	

Zugprüfung LT / tensile test LT							
BNr./Loc.	Zustand temper	Richtung direction	Tests	UTS [ksi]	YS [ksi]	AZ [%]	
Lot/No.				spec.min.	42,0	35,0	10
				spec.max.	-	-	-
61011/01	T6	LT	8	from	48,6	42,4	13
61011/01	T6	LT		to	49,0	42,9	15

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Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85150377 01 / 4

Rev.: 0

Seite / page: 2 von / of 2

Datum / date: 2015 11 10

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests:

Biegeversuch: OK. / Transverse bend test: OK

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes:

Die Dimensionstoleranzen entsprechen ANSI XXX /

As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Aufträge) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUKSA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

Issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto The Quality Management System arrangements in respect of these supplies comply with the requirements of AUKSA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland approval supplier code V21275

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkstattvertrender / factory specialist

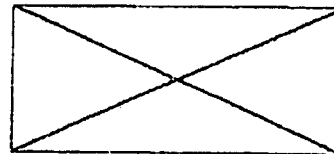
E-Mail / e-mail

Klampfer Josef

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschine erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.



2083



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 Z.I.
 Telefono 0444.958211 - Fax 0444.953636
 Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4/37
 Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004), 3.1**
 Nachfolgend in Belgien

Certificato nr. **MEST875470 / 2016 /**
 Prüfung/Test/Exam:

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Stato di fornitura: Hot rolled - Annealed Cold Drawn
 Lieferzustand
 Delivery state
 État de livraison

Produttore:
 Hersteller/Hersteller/Hersteller
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 603005690 STOCK
 Bestell
 Your order
 Commande

Tipo di Elaborazione: E+AOD
 Erstellungsverfahren
 Making process
 Mode d'élaboration

Marchi di Fabbrica:
 Zeichen des Lieferanten
 Trade marks
 Signes de l'usine productrice



Conferma ordine nr: EI16002840
 Waren-Our Order/EI nr.

Qualità: 304/304L
 Werkstoff/Grade/Qualité

Punziona del Collaudatore:
 Stempel des Werksachverständigen
 Inspector's stamp/Person de l'essai

MR

Avviso di Spedizione: D-VI16013169
 Lieferungsanweisung/Notice

Marca: AISI
 Markenbezeichnung
 Brand / Marque

Punzonatura: 304/304L
 Kennzeichnung
 Marking
 Marquage

TEST ALLO STATO DI FORNITURA										
Test on delivery condition / Prüfung auf Lieferbareitern produkt / Test a l'état de fourniture / Prueba sobre el material así como entregado										
TEST	Prove/Prüfung Qualitätsprüfung Logische Spez. Bau- oder Chem. Werkstoff, Lieferbareitern Lsg. spez. nach DIN	*F	Proz. Gegge Prozess Lieferbareitern V	Snervamento Yield Stress Yield strength Rp 0,2 % R.A.L	Snervamento Yield Stress Yield strength Rp 0,2 % R.A.L	Resistenza Tensile strength Tensile strength Rm R.A.L	Allungamento Elongation Elongation A %	Stirazione Elongation Elongation RA %	Resistenza Tensile strength Tensile strength Rm R.A.L	Durezza Hardness Hardness HB
Valori richiesti		min		30		75	40	50		140
Arbeitsanweisung/Notice		max								235
A	12,5	68	L	74		103	45	68		230

TEST ALLO STATO DI FORNITURA			
Test on delivery condition / Prüfung auf Lieferbareitern produkt / Test a l'état de fourniture / Prueba sobre el material así como entregado			
TEST	min	max	
A Grain size for ASTM E112			5

Mechanical properties according to ASTM A370.

Analisi chimica												
Chemische Zusammensetzung/Chemical Analysis/Analyse chimique												
Calda Metall Schmelze/Coil	min - max	0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,00	0,040	0,030	0,100	
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	
269432	0,020	0,37	1,74	18,23	0,53	0,73	8,00	0,129	0,033	0,029	0,095	

Corrosion test in 16% sulfuric acid and copper sulfate solutions							
Test standard: - ASTM A262-Practice E							
Test	Heat treatment before test	Length of Period (h)	Test temp ("C)	Bend Angle (")	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bond test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	SATISFACTORY

Produced without class HI Ozone depleting substances.
 Solution heat treated free from continuous carbide network.
 Annealing temperature: 1940°F for 1 h/water.
 Micro and macro etch test: OK
 Reduction ratio = 44,4 : 1
 Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
 Die gestellten Anforderungen sind in Abgleich erfüllt
 The material has been furnished in accordance with the requirements
 Le matériel a été livré conforme aux exigences

Controllo antimiscelazione: OK
 Vermischungsprüfung: positiv/positiv durchgeföhrt
 Antimixing testing performed: OK
 Contrôle antimélange: R.A.L.

Controllo visivo o dimensionale: soddisfatto le esigenze
 Beschäftigung und Ausmessung: ohne Beanstandung
 Visual inspection and dimensional checks satisfactory
 Contrôle visuel et dimensionnel: satisfaisant

Vicenza, 25/05/16
 VCC008
 (Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 3



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Telefono 0444.868211 - Fax 0444.863838
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924487

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004) , 3.1**

Nach/According to/Den

Certificato nr. **MEST875470 / 2016 /**

Prüfung/Trouvaille

Cliente / Besteller/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Stato di fornitura: **Hot rolled - Annealed Cold Drawn**

Lieferzustand
Delivery state
Etat de livraison

Produktion:

Herz/Schicht/Lieferprodukt

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: **603005690 STOCK**

Bestell
Your order
Commande

Tipo di Elaborazione: **E+A00**

Erzeugnisart
Milling process
Mode d'élaboration

Merch di Fabbrica:

Zeichen des Lieferanten
Trade mark
Signes de l'usine productrice



Conferma ordine nr: **EI16002840**

Werk/Our Order/Ref. nr.

Qualità: **304/304L**

Werkstoff/Güteklasse

Prüfung des Collaudatore:

Stempel des Werkstoffverständigen
Inspector's stamp/Prüfung des Inspekteurs

MR

Avviso di Spedizione: **D-VI16013189**

Lieferanweisung/Packing Ref./L.

Marca: **AISI**

Markenbezeichnung
Brand / Marque

Prüfungsnr.: **304/304L**

Kennzeichnung
Marking
Marquage

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS16949 : 2009, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive '97/23/EC' Annex 1, a, 4.3 by TUEV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

Medial and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 25/05/16

VC0008

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkstoffverständige / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 3 di 3



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Telefono 0444.988211 - Fax 0444.983838
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1

Certificato nr. MEST875470 / 2016 /
Prüfung/Test/Ceal

Cliente / Destatation/Purchaser/Client
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA

Stato di fornitura: Hot rolled - Annealed Cold Drawn
Lieferzustand
Delivery state
Etat de livraison

Produttore:
Hersteller/Hersteller/Hersteller
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr. 603005690 STOCK
Detail
Your order
Commande

Tipo di Elaborazione: E+AOD
Erzeugungszustand
Melting process
Mode d'élaboration

Marchi di Fabbrica:
Zeichen des Unternehmens
Trade marks
Sigles de l'usine productrice



Conferma ordine nr. EI16002840
Werk/Ouf Order/Nr.

Qualità: 304/304L
Werkstoff/Grade/Qualité

Funzione del Collaudatore:
Stempel des Werkstättchefs/Inspektor's stamp/Stamp of the Factory

MR

Avviso di Spedizione: D-VI16013169
Lieferanweisung/Packing Instruk.

Marca: AISL
Markenbezeichnung
Brand / Marque

Punzonatura: 304/304L
Kennzeichnung
Marking
Marquage

SPECIFICHE:	Note:
Anforderungen / Requirements / Exigences	Anforderungen / Notes / Notes
VSI 0 304/304L A,CF AISI 304/304L AMS 5639 H S30400 A AMS 5647 J S30403 A AMS-QQ-S-763 D 304 A,CF AMS-QQ-S-763 D 304L A,CF ASME SA182 2015 S30400/03 A (0) ASME SA193 2015 B8 (1) ASME SA276 2015 S30400/03 A,CF (2) ASME SA320 2015 B8 (3) ASME SA479 2015 S30400/03 A (4) ASTM A182 2015 S30400/03 A (5) ASTM A193 2015 B8 (6) ASTM A262 2013 PRACTICE E ASTM A276 2015 S30400/03 A,CF ASTM A314 2008 S30400/03 ASTM A320 2015A B8 (7) ASTM A370 2014 ASTM A473 2001 S30400/03 (8) ASTM A479 2015 S30400/03 A MIL-S-862 B/1 304/304L NACE MR0103 2010 S30400/03 A NACE MR0175 2009 S30400/03 A (9)	(0)SECTION B P.T.A 2015 EDITION For products machined directly from bar refer to ASME SA479. (1)SECTION B P.T.A 2015 EDITION Chemical analysis only. (2)SECTION B P.T.A 2015 EDITION (3)SECTION B P.T.A 2015 EDITION Chemical analysis only. (4)SECTION B P.T.A 2015 EDITION (5)For products machined directly from bar refer also to ASTM A479. (6)Chemical analysis only. (7)Chemical analysis only. (8)Chemical analysis only. (9)ANSI/NACE MR0175/ISO 15156-3, second edition 2008-10-15 Technical circular 12011 Published 2011-06-14

Tolleranza: ASTM A484-15 TABLE B							
Tolerances/Abweichungen/Tolérance							
Pos. nr. Pos. nr. Nr. de pos.	Oggetto Bespand Produit designé Design de produit	Dimensioni - in Abmessungen Dimensions Dimensions	Lunghezza - in Länge Length Longueur	Colata Schmelze Melt Coulée	Pezzi Stücken Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot no. Lot no.
0010	Square	1,0000 x 1,0000	156/ 156	268432		4.944	801108380

Vicenza, 25/05/16

VCO008

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkstättchefs/Inspektor / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 3

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B1.000X1.000

PO / BATCH NO.: 038285/5009815

DATE: NOV 30 2017

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: 1.00'

QUANTITY RECEIVED: 23"

THICKNESS RECEIVED: 1.00'

QUANTITY INSPECTED: 23"

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	- ASTM A276
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 269432
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>ml PD</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- VERIFY STOCK TO DART PURCHASE ORDER REQUIREMENTS
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORRECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIREMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIREMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC COORDINATOR BEFORE GOING FURTHER

8		7		6		5		4		3		2		1																																													
<div>SPECIFICATION CONTROL DRAWING</div>																																																											
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE</div><div>(NOTE: AISI 303 NOT ACCEPTABLE)</div></div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div>SPECIFICATION:</div><div>ASTM A276 OR ASTM A240</div></div><div><div>PART NUMBER:</div><div>M304B T.TTT X WW.WWW </div><div><div>THICK</div><div>WIDTH</div></div></div><div><div>WHERE "T.TTT" = THICKNESS IN INCHES</div><div>AND "WW.WWW" = WIDTH IN INCHES</div></div><div><div><div></div><div></div></div><div><div>EG. 0.5" x 3.0" BAR = M304B0.500X03.000</div><div>EG. 0.5" X 12.0" PLATE = M304B0.500X12.000</div></div></div></div>																																																											
<div>RELEASED</div> <div>2010-11-30</div>																																																											
<table><tr><td>C</td><td>ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"</td><td>MB</td><td>10.11.25</td></tr><tr><td>B</td><td>REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 09-020A</td><td>CP</td><td>09.07.15</td></tr><tr><td>A</td><td>NEW ISSUE</td><td>PH</td><td>05.06.10</td></tr><tr><td>REV.</td><td>DESCRIPTION</td><td>BY</td><td>DATE</td></tr><tr><td>DESIGN</td><td></td><td></td><td></td></tr><tr><td>DRAWN</td><td></td><td></td><td></td></tr><tr><td>CHECKED</td><td></td><td></td><td></td></tr><tr><td>MFG. APPR.</td><td></td><td></td><td></td></tr><tr><td>APPROVED</td><td></td><td></td><td></td></tr><tr><td>DE APPR.</td><td></td><td></td><td></td></tr><tr><td>DATE</td><td>10.11.25</td><td></td><td></td></tr></table> <div><div><div>DART AEROSPACE LTD</div><div>HAWKESBURY, ONTARIO, CANADA</div></div><div><div>DRAWING NO.</div><div>M304B</div></div><div><div>TITLE</div><div>304/316 BAR/PLATE</div></div><div><div>REV. C</div><div>SHEET 1 OF 1</div></div><div><div>SCALE</div><div>NTS</div></div><div><div>COPYRIGHT © 2005 BY DART AEROSPACE LTD</div><div>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</div></div></div>																C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25	B	REFORMAT DWG, ADD SPECS (ZN D6-1), REF PAR 09-020A	CP	09.07.15	A	NEW ISSUE	PH	05.06.10	REV.	DESCRIPTION	BY	DATE	DESIGN				DRAWN				CHECKED				MFG. APPR.				APPROVED				DE APPR.				DATE	10.11.25		
C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.; CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25																																																								
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MFG. APPR.																																																											
APPROVED																																																											
DE APPR.																																																											
DATE	10.11.25																																																										

| 8 | | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | | 1 | |

RELEASE
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG., CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG, ADD SPECS (ZN D8-1), REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV.	DESCRIPTION	BY	DATE
DESIGN	PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M304B TITLE 304/316 BAR/PLATE COPYRIGHT © 2005 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMPILED OR REPRODUCED TO ANY OTHER PERSON WITHOUT THE WRITTEN AND SIGNED APPROVAL OF DART AEROSPACE LTD.</small>	
DRAWN	PH		
CHECKED	PH		
MFG. APPR.	PH		
APPROVED	PH		
DE APPR.	PH	REV. C	SHEET 1 OF 1
DATE	10.11.25	SCALE	NTS

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061-T6S sheet .020

PO / BATCH NO.: 038285/5009813

DATE: NOV 30 2017

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 48^{1/2}
 QUANTITY INSPECTED: 48^{1/2}
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .020
 THICKNESS RECEIVED: .020
 SHEET SIZE ORDERED: 4x12
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	- AMS - QQ - A - 250/11
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	Heat # 68424/01/00
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>pd PD</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S.XXX
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MAP

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>	DRAWING NO.	REV. B
CHECKED	<i>[Signature]</i>	M6061T6S	SHEET 1 OF 1
MFG. APPR.	<i>[Signature]</i>	TITLE	SCALE
APPROVED	<i>[Signature]</i>	6061-T6 SHEET SPEC	NTS
DE APPR.	<i>[Signature]</i>	COPYRIGHT © 2001 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	
DATE	09.07.13		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S.063
 DATE: NOV 30 2017

PO / BATCH NO.: 038285/5009814

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 64#2
 QUANTITY INSPECTED: 64#2
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.63
 THICKNESS RECEIVED: 0.63
 SHEET SIZE ORDERED: 2x4x8
 SHEET SIZE RECEIVED: 2x4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	AMS-QQ-A-250/11
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	Heat # 61011/01/00
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>gal</u> <u>PO</u>	SIGNED OFF BY: _____
DATE: <u>NOV 30 2017</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S.XXX
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10

B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061T6S	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 SHEET SPEC	NTS
DE APPR.		<small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	
DATE	09.07.13		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B2.000x03.500

PO / BATCH NO.: 038285/5009811

DATE: DEC 05 2017

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6"
 QUANTITY INSPECTED: 6"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.00
 THICKNESS RECEIVED: 2.00
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: NA

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS-QQ-A-250/11
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 70175249/537055780
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>ml</u>	<u>10</u>	SIGNED OFF BY: _____	
DATE: <u>DEC 05 2017</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 ~~OR AMS 4027~~ *ad*
OR ASTM B209

PART NUMBER: M6061T6S|XXX|
THK|

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DWG, ADD B209 SPEC (ZN D8-1), REF PAR 09-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	DRAWING NO. REV. B M6061T6S TITLE 6061-T6 SHEET SPEC SCALE NTS	
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.	DATE 09.07.13		
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 17024+35.032
 DATE: 17-11-28

PO / BATCH NO.: 038398/5013848

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 48 P1/2
 QUANTITY INSPECTED: 48 P1/2
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .032
 THICKNESS RECEIVED: .032
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	QA-A-250/4
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y N	HT# 63819/01
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>pel</u> DAS 9 DATE: <u>17/11/28</u> 9:52	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

INSTRUCTIONS FOR INSPECTING BAR, TUBING, ROUND, & SHEET STOCK

- 1- ~~VERIFY STOCK TO DART PURCHASE ORDER REQUIRMENTS~~
 - 2- MEASURE ALL DIMENSIONS FOR EACH PURCHASED STOCK
 - a. WIDTH, THICKNESS, DIAMETER, WALL THICKNESS & LENGTH
 - 3- VERIFY CONDITION OF MATERIAL i.e. DAMAGED, CORRODED, etc.
 - 4- VERIFY THAT SUPPLIER HAS A NUMBER (HEAT #) ON ITS RECEIVING REPORT TO LINK TO MATERIAL CERTS
 - 5- VERIFY MATERIAL CERTS ARE CORECT TO THE DART RELEASED M-DRAWING
 - 6- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING & RECORD
- note Aluminum material only

INSTRUCTIONS FOR INSPECTING SKIDTUBE & STEP EXTRUSION

- 1- VERIFY TO DART SUPPLIED DRAWING
 - 2- SAMPLE INSPECT MATERIAL IN BUNDLE TO ENSURE MATERIAL CAN BE RECEIVED INTO DART
 - 3- USING PORTABLE HARDNESS TESTER VERIFY HARDNESS OF THE MATERIAL TO THE DRAWING
 - 4- VERIFY THAT MATERIAL CERTS MATCH TO WHATS CALLED UP ON THE DART DRAWING
- AFTER MATERIAL PASSES INSPECTION**
- 5- HAVE DART EMPLOYEES START STOCKING MATERIAL BUT REQUEST MIN 20pcs FOR FULL INSPECTION
 - 6- INSPECT ALL DIMS AS PER DRAWING REQUIRMENTS

INSTRUCTIONS FOR INSPECTING CROSS TUBE MATERIAL

- 1- VERIFY MATERIAL CERTS MATCH THE REQUIRMENTS ON THE DART DRAWINGS
- 2- INSPECT MIN. HALF THE BATCH OF EXTRUSION RECEIVED INTO DART
- 3- INSPECT MATERIAL AS PER THE EXTRUSION REPORT
 - a. WALL THICKNESS USING ULTRA-SONIC IN 4 LOCATIONS
 - b. OUTSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - c. INSIDE DIAMETER HIGHEST/LOWEST BOTH ENDS
 - d. STRAIGHTNESS @ CENTER OVER 12" SPAN
 - e. WALL THICKNESS USING TUBE MICROMETER HIGHEST/LOWEST BOTH ENDS
- 4- IDENTIFY EACH TUBE IN SEQUENCE OF INSPECTING (TUBE 1, TUBE2.....) AND W/O# AND PO#
- 5- RECORD ALL FINDINGS ON EXTRUSION REPORT

IF ANY QUESTIONS PLEASE SEE QC CORR DINATOR BEFORE GOING FURTHER

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037
OR ASTM B209



PART NUMBER: M2024T3S|XXX|
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE: .XXX BY 4FT BY 10FT

D4S
9
8-89 032

RELEASED
2009-08-23

B	REFORMAT DWG, ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M2024T3S	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		2024-T3 SHEET SPEC	NTS
DE APPR.		COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DATE	09.07.07		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML6061T6 R3.250
 DATE: 17/11/16

PO / BATCH NO.: 38285/S009812

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 36'
 QUANTITY INSPECTED: 36'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 3.250
 THICKNESS RECEIVED: 3.250
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B221 AMS 6061-T6
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HEAT # 22382581 37876
CORRECT MATERIAL IDENTIFICATION	(Y)	N	ML6061T6 R3.250
CORRECT M# ON THE MATERIAL	(Y)	N	S009812
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	SIGNED OFF BY: _____
DATE: <u>17/11/16</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221



PART NUMBER: M6061T6R D.DDD
DIA.

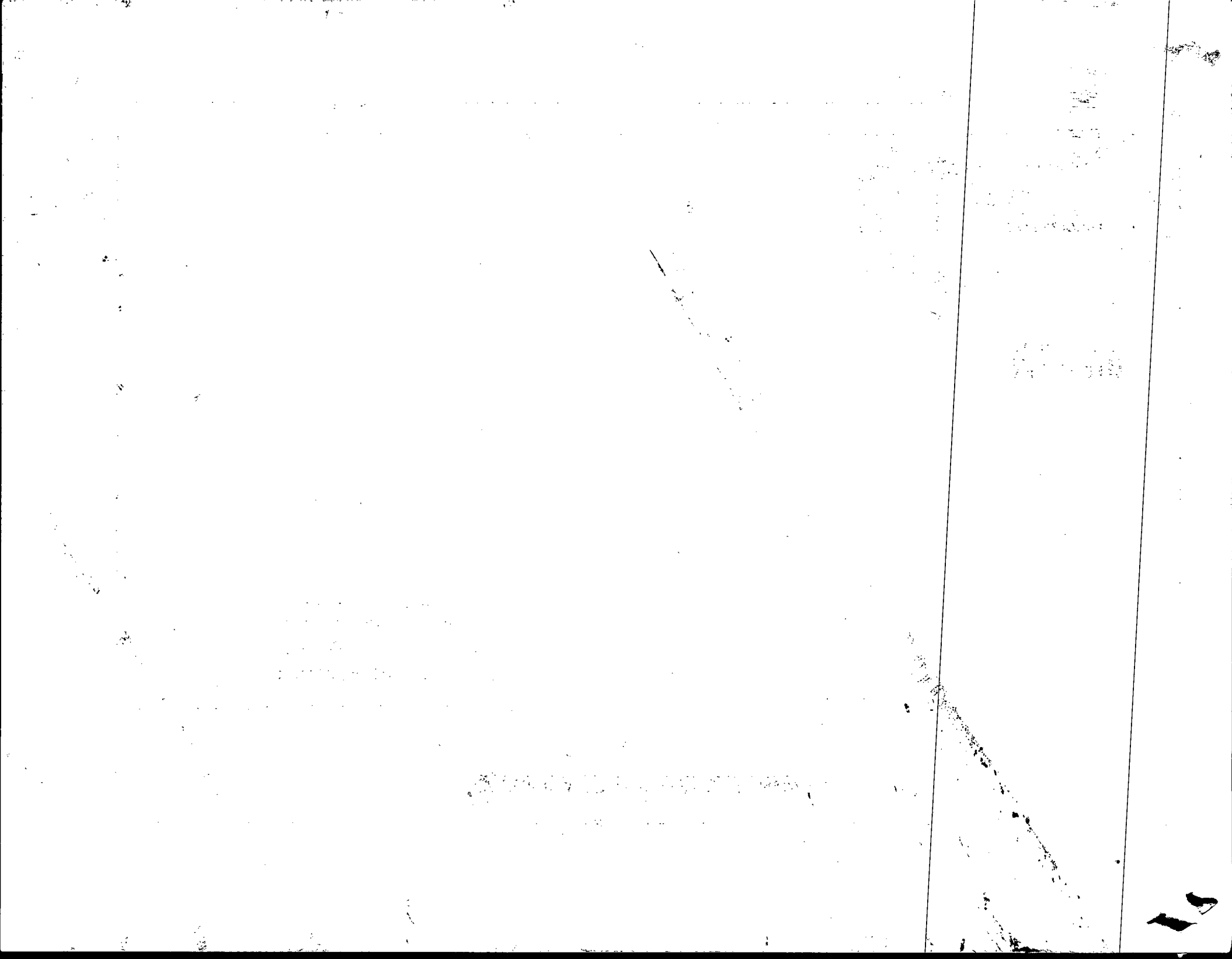
WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

R3.250
MK

RELEASED
2009-09-09
MK

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061T6R	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 ROUND BAR	NTS
DE APPR.		COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DATE	09.07.13		





Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038285
PO Date: 11/7/17
Due Date: 11/13/17
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pynt Terms: Net 30

Freight Terms:
Special Comments: QUOTATION NO.
SOU0068632, SOU0069446, SOU0069452

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4-R0.750	-	17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$8.275/ft	\$198.60
2	M2024T3S.032	-	2024-T3 .032 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf 48 sf	48 sf	\$4.4791666/sf	\$215.00
7	M6061T6B2.000X03.500	-	6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		Firmed	11/13/17	6 ft	0 ft	6 ft	\$40.70/ft	\$244.20
14	M6061T6R3.250	-	6061-T6 Round Bar 3.250 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR		Firmed	11/13/17	36 ft	0 ft 36 ft	36 ft	\$30.773611/ft	\$1,107.85



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038285**

Items											
Line Item	Part	Rev	Description	Item Tax	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
			AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft								
15	M6061T6S.020	-	6061-T6 Sheet .020 : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	48 sf	0 sf	48 sf	\$1.736875/sf	\$83.37
16	M6061T6S.040	-	6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	144 sf	0 sf	144 sf	\$2.8484722/sf	\$410.18
17	M6061T6S.063	-	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf		Firmed	11/13/17	64 sf	0 sf	64 sf	\$2.7565625/sf	\$176.42
20	M304B1.000X1.000	-	304 Bar 1.00 X 1.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft		Firmed	11/13/17	24 ft	0 ft	24 ft	\$13.4625/ft	\$323.10
21	M303R0.500	-	303 Round Bar 0.500" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft		Firmed	11/13/17	48 ft	0 ft	48 ft	\$1.9739583/ft	\$94.75
Grand Total:										\$2,853.47	

Order Notes:

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038285

Order Notes

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/14/17 12:40 PM dart.baker.diane